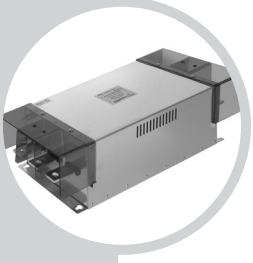
노이즈필터
Noise Filter









• 1Ø AC 250V 고감쇄형(1Ø AC 250VMulti-Stage Type) ····· 530
• 3Ø AC 250V 고감쇄형(3Ø AC 250V Multi-Stage Type) ····· 540
• 3Ø AC 500V 고감쇄형(3Ø AC 500V Multi-Stage Type) ····· 547
• 3P4W AC 500V(3P4W Series 500V) ····· 564
• 1Ø AC 250V 고급형(1Ø AC 250V High Quality Type) ····· 570
• 3Ø AC 250V 고급형(1Ø AC 250V High Quality Type) ····· 574
• 1Ø AC 250V PCB Type(1Ø AC 250V PCB Type) ····· 584
• 1Ø AC 250V Wire Type(1Ø AC 250V Wire Type) ····· 586
• 1Ø AC 250V PIN Type(1Ø AC 250V PIN Type) ····· 587
• 1Ø AC 250V 경제형(1Ø AC 250V DIN Rail & Terminal Type) ····· 589
• 1Ø AC 250V, 500V 보급형(1Ø AC 250V, 500V General Type) ····· 590
• DC 50V(12VDC~50VDC) ····· 596
• DC 125V(60VDC~125VDC) ····· 597
• DC 400V(150VDC~400VDC) ····· 598
• 3Ø AC 250V, 500V 보급형(3Ø AC 250V, 500V General Type) ····· 608
• 3Ø AC 250V, 500V 인버터후단형
(3Ø AC 250V, 500V Inverter Output Type) ····· 608
• 1Ø AC 250V 고급형 PLUG Filter
(1Ø AC 250V High Quality Type) ····· 630

주문시 확인 승낙 사항
Items to be verified and approved when ordering products

운영 제품을 구입하는 고객 여러분께 !

저희 운영 제품을 애용해 주셔서 대단히 감사합니다.
본 카달로그에서 당사 제품을 주문하실 경우, 견적서, 계약서, 사양서 등에 특기사항이 없는 경우에는 다음의 적합 용도조건, 보증내용등을 적용합니다. 아래 내용을 확인하시고 승낙하신 후 주문해 주십시오.

1. 보증 내용

① 보증기간
당사 제품의 보증기간은 구입 후 또는 지정 장소 납입 후 1년으로 합니다.

② 보증 범위
상기 보증 기간 중에 당사측의 책임으로 당사 제품에 고장이 발생한 경우 대체품 제공 또는 수리를 제품 구입 장소에서 무상으로 실시합니다. 단, 고장의 원인이 다음에 해당하는 경우에는 이 보증 대상 범위에서 제외됩니다.
a) 본 카달로그 또는 사양서에 기재되어 있는 이외의 조건, 환경, 취급 및 사용에 의한 경우
b) 당사 제품 이외의 원인에 의한 경우
c) 당사 이외에 의한 개조 또는 수리에 의한 경우
d) 당사 제품의 본래 사용법 이외의 사용에 의한 경우
e) 당사 출하 당시의 과학, 기술 수준으로는 예측 할 수 없었던 경우
f) 기타 천재지변, 재해 등 당사측의 책임이 아닌 원인에 의한 경우
참고로 여기서의 보증은 당사 제품 단품의 보증을 의미하는 것이며, 당사 제품 고장에 의해 유발되는 손해는 보증 대상에서 제외됩니다.

2. 책임의 제한

① 당사 제품에 기인해 발생한 특별손해, 간접손해, 또는 소극적 손해에 대해 당사는 일체의 책임을 지지 않습니다.
② 프로그래밍 가능한 당사제품에 대해 당사 이외의 자가 실시한 프로그램 또는 그에 의해 발생한 결과에 대해 당사는 일체의 책임을 지지 않습니다.

3. 적합 용도의 조건

① 당사 제품을 다른 제품과 조합해서 사용하는 경우에 적합해야 할 규격, 법규 및 규제는 고객이 직접 확인해 주십시오.
또 고객이 사용하시는 시스템, 기계, 장치에 대한 당사제품의 적합성은 고객이 직접 확인해 주십시오.
이것이 실시되지 않는 경우 당사는 당사 제품의 적합성에 대해 책임을 지지 않습니다.

② 다음 용도에 사용하는 경우, 당사 영업 담당자와 상담하고 사양서 등을통해 확인하는 한편 정격, 성능에 대해 여유를 주거나 만일 고장이 발생해도 위험을 최소화 할 수 있는 안전 회로 등의 안전 대책을 2중으로 강구해 주십시오.
a) 실외, 잠재적인 화학적 오염 또는 전기적 방해를 받는 용도 또는 본 카탈로그에 기재되지 않는 조건이나 환경에서 사용.
b) 원자력 제어설비, 소각설비, 철도, 항공, 차량설비, 의료용 기계, 반도체 제조장비, 오락기계, 안전장치 및 행정 기관 이나 개별 업계의 규제에 따른 설비
c) 인명이나 재산에 위험이 미칠 수 있는 시스템, 기계, 장치
d) 가스, 수도, 전기의 공급 시스템, 24시간 연속 운전 시스템 등 높은 신뢰성이 필요한 설비
e) 자동차(2륜차 포함) 탑재 설비
f) 기타상기 a)~e) 에 준하며 고도의 안전성이 필요한 용도

③ 고객이 당사 제품을 인명이나 재산에 중대한 위험을 미치는 용도에 사용하는 경우에는 시스템 전체적으로 위험을 알리거나 여유 있는 설계에 의해 필요한 안전성을 확보할 수 있도록 설계되어 있는지 당사 제품이 전체적으로 의도한 용도에 적절히 배전, 설치 되어 있는지 반드시 고객이 직접 사전에 확인해 주십시오.

④ 본 카달로그에 기재되어 있는 용도는 참고용이므로 채택 시에는 기기, 장치의 기능과 안전성을 확인 한 후에 사용해 주십시오.

⑤ 당사 제품의 잘못된 사용으로 고객 또는 제 3자에게 예기치 않는 손해가 발생하지 않도록 사용상의 금지 사항 및 주의 사항을 완전히 숙지 한 후 반드시 지켜 주십시오.

4. 사양변경

본 카달로그에 기재된 제품의 사양 및 동봉품은 개선 또는 기타 사유에 의해 필요에 따라 변경될 수 있습니다.
당사 영업 담당자와 상담하고 당사 제품의 실제 사양을 확인해 주십시오.

5. 서비스의 범위

당사 제품의 가격에는 기술자 파견 등의 서비스 비용은 포함되어 있지 않습니다.
원하실 경우에는 당사 영업 담당자와 상담해 주십시오.

6. 적용 범위

상기 사항은 대한민국 내에서의 거래 및 사용을 전제로 합니다.
해외에서의 거래 및 사용에 대해서는 당사 영업 담당자와 사전에 상담해 주십시오.

Dear customers who purchase Woon Young products!

Thank you for purchasing Woon Young products.
If there is no particular information on estimates, contracts or specifications when you order products from this catalog, the following conditions of use and warranty shall apply. Please place orders after you read and approve the following items.

1. Content of Warranty

① Warranty period
The warranty period of this product shall be 1 year from the date of purchase or from the day the product is delivered to a designated place.

② Scope of warranty
If failure occurs due to reasons attributable to this company during the above-said warranty period, this company will provide substitute products or repair the product free of charge at the place of purchase. However, if the cause of failure is one of the following, it shall be excluded from being eligible for warranty benefits.
a) Products were handled or used under the conditions and environmnt not entered in this catalog or in specification.
b) Failure occurred due to reasons other than those caused by this product.
c) Failure occurred due to modification or repairs performed by persons other than this company.
d) Failure occurred because the product was used based on the method other than the original usage of this product.
e) Failure was not expected by the scientific and technical levels prevailing at the time of shipment.
f) Failure occurred due to causes beyond the control of this company, e.g. natural disasters and accidents.
Warranty as specified herein means the warranty covering only the product of this company, and any damage caused by the failure of this product shall be excluded from being eligible for warranty coverage.

2. Limitations on responsibility

① This company shall not be held liable whatsoever for any special damage, indirect damage or passive damage caused by this product of this company.
② This company shall not be held liable whatsoever for any programming performed by persons other than this company on the programmable products or for the results of such programming.

3. Conditions of compatibility

① Please check the standards, laws and regulations applicable when this product is used in combination with other products.
In addition, be sure to check the compatibility of this product covering the systems, machines and devices used by you.
If you fail to take actions as above, this company shall not be held liable for the compatibility of the product.

② If the product is used for the following purposes, discuss details with the sales manager of this company based on the provided specifications. At the same time, allow sufficient rating and performance, or take appropriate safety measures through the safety circuits that can minimize risks even if failure occurs.
a) Using the product outside or under environment exposed to potential chemical pollution or electric interference, or using the products under the conditions or environment not specified in this catalog.
b) Nuclear controllers, incinerators, railways, aviation, vehicles, medical equipment, semiconductor manufacturing equipment, game machines, safety devices and equipment regulated by administrative agencies or individual maker.
c) Systems, machines and devices that can cause personal or property damage.
d) Equipment requiring high degree of reliability, e.g. gas, water and electricity supply systems, and 24-hour continuous operation systems.
e) Automobile (Including two-wheeled vehicles) mounted equipment
f) Other purposes equivalent to the above-said paragraph a) through e) requiring high degree of safety.

③ If the product is used for purposes that might induce serious personal or property damage, be sure that you inform risks covering the entire system in advance or verify whether the product is designed to ensure required safety or whether the product is properly connected and installed to suit the intended overall purposes

④ The purposes of the products shown in this catalog are only for reference purposes. Apply such purposes only after you check the functions and the safety of the equipment and devices.

⑤ To prevent unexpected damage to you or to third parties resulting from improper use of this product, be sure to use the product after you thoroughly read and understand items related to prohibitions and caution during use.

4. Changing specifications

The products and specifications entered in this catalog are subject to change as needed for improvement or for other reasons. Discuss with the sales manager of this company and verify actual specifications of the products.

5. Range of service

The product prices do not contain any service expenses, e.g. dispatch of technicians. If you need any services, discuss with the sales manager of this company.

6. Scope of application

Items described above are on the premise that the products are traded and used in the Republic of Korea. Discuss with the sales manager of this company regarding overseas transactions and uses.

GUIDELINES FOR SAFETY

안전을 위한 주의사항 Guidelines for Safety

- **"안전을 위한 주의사항" 은 제품을 안전하고 올바르게 사용하여 사고나 위험을 미리 막기 위한 것이므로 반드시 지켜 주십시오.**
- **주의사항은 "경고"와 "주의"의 두 가지로 구분되어 있으며 "경고" 와 "주의"의 의미는 다음과 같습니다.**

⚠ **경고** 지시사항을 위반하였을 때 심각한 상해나 사망이 발생 할 가능성이 있는 경우입니다.

⚠ **주의** 지시사항을 위반하였을 때 경미한 상해나 제품손상이 발생할 가능성이 있는 경우 입니다.

- 제품과 사용설명서에 표시된 ⚠ 그림기호의 의미는 특정 조건 하에서 위험이 발생 할 우려가 있으므로 주의하라는 기호입니다.

⚠ 경 고

1. 인명이나 재산상에 영향이 큰 기기 (예: 원자력제어, 의료기기, 차량, 철도, 항공, 연소장치, 오락기기 등 또는 안전장치)에 사용할 경우 반드시 2중으로 안전장치를 부착한 후 사용하여 주십시오.
- 화재, 인명사고, 재산상의 손실이 발생할 수 있습니다.

2. 반드시 패널에 취부 하여 사용하시고 FG 또는 ⏚ 단자는 접지하여 주십시오.
- 감전의 우려가 있습니다.

3. 전원이 인가된 상태에서 결선 및 점검, 보수를 하지 마십시오.
- 감전의 우려가 있습니다.

4. 자사 수리기술자 이외에는 제품을 개조하지 마십시오.
- 감전이나 화재의 우려가 있습니다.

5. 입력 전원사양을 반드시 확인하시고 전원 연결 시 반드시 단자번호를 확인하시고 연결하십시오.
- 화재의 우려가 있습니다.

6. 전원을 차단한 직후에 부하측 단자를 만지지 마십시오.
- 감전의 우려가 있습니다.

⚠ 주 의

1. 실외에서 사용하지 마십시오.
- 제품의 수명이 짧아지는 원인이 되며 감전의 우려가 있습니다.

2. 전원 및 부하배선 연결 시에는 부하전류에 따른 전선의 굵기에 유의하여 주십시오.
- 전류에 비하여 전선의 굵기가 가늘면 화재의 위험이 있습니다.

3. 단자대의 나사는 규정토크로 조여 주십시오.
규정토크(TORQUE) M3.5: 0.6~1.2N(6~12kgf.cm), M4 : 1.3~1.5 N(10~14Kgf.cm), M5: 2.1~3.0N(21~30kgf.cm), M8:10.6~12.5N(108~127kgf.cm), M12: 35.7~42N(364~428kgf.cm) M14: 57.8~68N(590~693kgf.cm)
- 나사가 풀리면 접촉불량으로 화재의 우려가 있습니다.

4. 반드시 정격과 성능 범위내에서 사용하여 주십시오.
- 제품의 수명이 단축되고 고장 발생의 원인이 됩니다.

5. 청소시 물, 유기용제 등의 사용을 금합니다.
- 감전 및 화재와 제품변형의 우려가 있습니다.

6. 가연성가스, 폭발성가스, 습기, 직사광선, 복사열, 진동, 충격이 있는 장소에서의 설치 및 운전을 금합니다.
- 제품수명단축 및 고장, 화재, 폭발의 위험이 있습니다.

7. 제품의 내부로 먼지나 배선찌꺼기 등의 유해한 도체가 유입되지 않도록 하여 주십시오.
- 고장 및 화재의 우려가 있습니다.

8. 제품 사용시 환기되지 않는 밀폐된 곳에서 사용하지 마십시오.

9. 동작 중 방열판류에는 고열이 발생하므로 절대 만지지 마십시오.
- 감전 및 화상의 우려가 있습니다.

10. 제품폐기 시에는 산업폐기물로서 처리하여 주십시오.

- Guidelines for safety is to use product safe and properly and prevent accidents or dangers. Never forget to keep it.

- Guidelines can be classified into two, warning and caution, and their meanings are as follows.

⚠ **Warning** When there is the possibility that serious injury or death can occur when violating directions.

⚠ **Caution** When there is the possibility that slight injury or the damage of products can occur when violating directions.

- The meaning of ⚠ lexigram indicated on the products and instructions is to handle with care as any danger can occur under specific conditions.

⚠ Warning

1. When using in instruments that have great influence on lives or properties(for examples: nuclear energy control, medical equipment, vehicles, railroad, aviation, combustion apparatus, entertainment systems or safety device), use after being sure to attach duplex safety device.
   - There may be fire, loss of lives, or property damages.
2. Use after being sure to attach to panel, and ground FG or ⏚ terminal.
   -There may be the possibility of electric shock.
3. Don't connect, inspect and repair under the power-up.
   -There may be the possibility of electric shock.
4. Don't remodel products except by the company's engineers.
   -There may be the possibility of fire or electric shock.
5. Be sure to check input power source options, and connect after checking terminal number when connecting power sources.
   -There may be the possibility of fire.
6. Don't touch the terminal of load side immediately after power source is cut off.
   -There may be the possibility of electric shock.

⚠ Caution

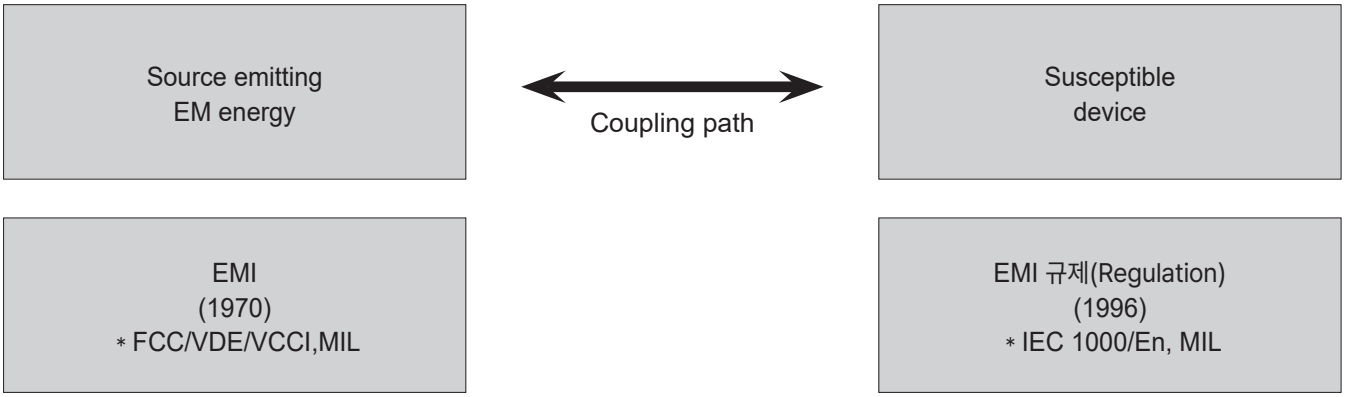
1. Don't use outdoors (for outdoor, separate order)
   -It can be a cause of product's life becoming short, and there may be the possibility of electric shock.
2. When connecting power source and load wiring, pay attention to the thickness of cables according to load current.
   -There may be the danger of fire if the thickness of cables is small for the current.
3. Tighten the screw of port by the regulated torque.
   The regulated torque - M3.5 : 0.6~1.2N(6~12kgf.cm), M4 : 1.3~1.5 N(10~14Kgf.cm), M5 : 2.1~3.0N(21~30kgf.cm) M8 : 10.6~12.5N(108~127kgf.cm), M12 : 35.7~42N(364~428kgf.cm), M14 : 57.8~68N(590~693kgf.cm)
   -If the screw comes loose, there may be the possibility of fire because of bad contact.
4. Be sure to use within the range of rating and performance.
   -Product's life is shortened, and it may be a cause of troubles.
5. Don't use water or organic solvent when cleaning.
   -There may be the possibility of electric shock, fire and product deformation.
6. Don't install or operate in places with inflammable gas, explosive gas, direct ray of light, radiation heat, vibration and shock.
   -There may be the possibility of troubles and fire.
7. Make sure that harmful conductors such as dust or fragments of cables may not be flowed into the inside of product.
   -There may be the possibility of trouble or fire.
8. Don't use this product where closed and not ventilated place
   - It may cause a fire and the damage to product.
9. Never touch during operation as there is superheat on the radiator board.
10. Dispose as industrial waste when discarding products.

1. 전자파 장해 개요 (EMI)

최근의 디지탈 기술과 반도체 기술 등의 급속한 발달에 따라 전자산업 및 컴퓨터 기술에 눈부신 발전을 가져왔습니다 따라서 전기·전자장치의 경량화, 소형화, 고속화와 광대역화가 가능하게 되고, 또한 이들을 적은 구동 에너지로도 동작시킬 수 있는 반면 이들은 인위적인 제어가 어려운 자연 현상을 원인으로 하는 미소한 전자파장해 에도 민감하게 반응하여 오동작을 잘 일으키게 되고, 또 많은 전기·전자장치가 사회 각 분야에 보급됨에 따라 전자파 밀집도가 증가하고 전자파환경을 나쁘게 만드는 경우가 늘어나 나쁜 환경에 설치된 기기가 원래의 목표대로 동작치 않아 사회에 혼란을 일으키거나, 인체 장해의 가능성이 제시되고 있는 등 많은 문제점들이 나타나고 있습니다.
우리의 생활환경에서도 전기면도기를 사용할 때, 텔레비젼 수상기의 화면에 노이즈가 발생하는 경우를 비롯하여, 전기톱을 사용하는 제재소 근처에서 차량 오디오가 잡음을 일으키는 경우, 화려한 장미전구 아래에서 무선 리모콘이 동작되지 않는 경우 등, 대수롭지 않게 무시되는 것으로부터, 자동차 전자제어장치의 전자파 장해로 급출발, 급정지, 급가속에 의한 교통사고가 일어난 경우, CNC 선반의 전자파장해로 인해 선반헤드가 갑자기 이동하면서 치구작업을 하고 있던 작업자가 사망한 경우, 원자력발전소의 전자제어부의 전자파장해로 인한 원자로 비상정지 사태 발생, 무선단말기 사용자의 전자파 인체장해 가능성 등, 매우 심각한 사회문제를 일으키는 것까지 매우 다양한 형태로 전자파장해 현상이 나타나고 있습니다.
이러한 현상들은 과거에 구체적인 원인이 모를 때는 원인불명으로 처리되거나, 어느 정도 성가신 정도로 그냥 그렇게 넘어갔으나, 전자파장해 현상에 대한 구체적인 연구가 시작되면서 그 원인이 밝혀지고, 따라서 피해측에서의 강력한 대책이 요구되고 있는 실정입니다.

전자파장해 문제가 성립하기 위해서는 그림 1과 같이 기본적으로 장해원(source), 결합경로(coupling path), 감응체(susceptor) 가 동시에 존재해야 합

Electronic industry and technology of computer have faced brilliant development because of recent dramatic advance of digital technology and semiconductor etc. it is therefore possible to see lighter, smaller, speedy electric and electronic devices in a large area. On one hand, these can be operated by small energy to start. On the other hand, there are many problems caused by it. It operates so sensitively even by minute electromagnetic and causes error of operation, density of electromagnetic is increased as so many electric and electronic products are distributed to every corner of society which also causes worse environment of electronic wave. Devices which are installed under the environment mentioned above operate wrongly enough to cause confusion in the society or increase concern about the bad effect on human body.
There are many interception of electromagnetic in our society. With regard to trivial occasions occur in our daily life, there are when electronic shaving machine is used, noise occurs on TV screen, audio of vehicle is interfered by neighboring saw milling, wireless remote controller does not work under the flamboyant lamp etc.
The examples of more serious occasions are traffic accident occurs from unprepared start, stop, acceleration by interception of electronic wave of electronic controller, operator is killed as shelf head all of sudden operates because of electromagnetic interception of CNC shelf, emergent stop of nuclear reactor happens due to electromagnetic interception at electronic controller of atomic power station and possible harm on human body from electromagnetic etc. Though these phenomena were treated with unknown reason or regarded forgettable, they are now clarified in detail and fundamental measure from the victims.



(Fig1)

1. Overview of interception of electromagnetic (EMI)

니다. 이러한 전자파장해 현상은 장해원으로 부 터의 과도한 불요전자파의 방출에 의해서도 발생하지만, 피해장치 자체의 약한 전자파내성에 의해서도 발생합니다. 이러한 전자파장해 문제를 줄이기 위해서는 우선 장해원의 수나 출력 등을 줄여 다른 장치에 방해를 주지 않도록 하여야 하고, 또한 어느 정도의 전자기적 환경 내에서도 장치가 의도된 동작을 할 수 있도록 내성을 강화시켜 주어야 합니다. 사회에 보급되는 다양한 전기·전자장치들이서로 조화를 이루어 공존할 수 있는 것을 "전자파환경의 양립성"이라 하고, 이러한 능력을 갖게 하는 것이 EMI/EMC 연구의 궁극적인 목표입니다. 세계각국은 이러한 목표를 달성하기 위해 '70년대 후반부터 불요전자파 방출 규제(흔히 EMI 규제라부른다)를 시행하고 있으며, '96년 1월 1일부터 유럽연합을 중심으로 전자파내성 규제(흔히 EMS 규제라 부른다)가 본격적으로 시작되고 있습니다. 현대적 개념의 전자파양립성은 우리가 동작시키려는 장치의 입장에서 보는 것으로, 전기·전자 장치나 시스템을 설치하려는 위치의 전자파환경에서 설계상에 의도된 성능을 가지고 제대로 동작할 수 있는 능력을 뜻하며, 이에서 한 단계 더 나아가서 장치나 시스템이 새로 추가될 때 기존의 전자파환경에 변화를 가져와 거기에 이미 있었던 다른 기기에 영향을 주지 않아야 하는 것도 의도하는 것으로 매우 적극적이고, 포괄적인 개념으로 발전되고 있습니다. 이렇게 발전되어온 EMI/EMC의 정의를 최근의 IEEE 사전(ANSI/IEEE Std. 100-1988)은 다음과 같이 내리고 있습니다.

위의 정의로부터 단순히 EMC 라고 부르는 경우는 포괄적인 의미의 두 번째 용어 정의로 해석할 있으며, 흔히 EMI/EMC 라고 부르는 경우의 EMC 는 첫 번째 용어 정의로서 EMS 와 같은 의미를 가지는 것으로 이해할 수 있습니다.

In order to establish the issue of electromagnetic interception, source, coupling path and susceptor etc. basically must be available at the same time as per Picture 1. Though phenomena of electromagnetic interception occur from excessive electromagnetic from the source, they are also caused from insufficient tolerance of devices. In order to reduce the problem of electromagnetic, number or output of source must be decreased in order not to intercept other devices, strengthening the tolerance of electromagnetic of the devices so that they can operate as intended under the electromagnetic environment to some extent. Compatibility of electronic wave environment indicates that various electric and electronic devices coexist harmoniously and it is the ultimate objective of EMI/EMC study. Each country in the world have implemented EMI, restriction of electromagnetic since late 1970s to achieve the objective and more seriously started its regulation as EMS regulation mainly led by EU was announced in 1 Jan.1996.
Modern concept of compatibility of electronic has been developed very proactively and comprehensively from the perspective of the devices which we intent to operate. Particularly, it means the ability of electric and electronic devices operate as designed under the electromagnetic environment where the devices are planned to install and further, additional electromagnetic of new device or system do not impact on the existing electromagnetic environment without influencing the adjacent existing devices.
Definition of EMI/EMS which have been developed as mentioned above are now redefined by IEEE(ANSI/IEEE Std. 100-1988) as below.

EMI : A measure of electromagnetic radiation from equipment
EMC : 1) A measure of equipment tolerance to external electro magnetic fields.
2) The ability of a device to function satisfactorily in its electro magnetic environment without introducing intolerable disturbance to that environment (or to other devices)

1. 전자파 장해 개요 (EMI) Overview of interception of electromagnetic (EMI)

1 — 1. EMI 해결방법 (Solution for EMI)

1. 차 폐 (Shielding)
2. 접 지 (Grounding)
3. 평 형 (Matching)
4. 여 과 (Filtering)
5. 격 리 (Isolation)
6. 조 정 (Impedance level)
7. 상쇄기술 (Offset)

→

○ 잡음원의 잡음 Level 감소
(Decreasing Noise Level)
○ 전달 경로를 차단
(Disconnecting to Transision Loop)
○ 잡음과 여과
(Noise & filtering)
○ 피해장치의 면역을 강화
(Immunity in force of equipment in effect)

1 — 2. EMI 대책 수립절차와 발생 요인 (Countermeasure against EMI)

장애발생 (EMI Occurence)

⇩

장애의 원인이 무엇인가 여러 각도에서 조사 검토하여 오동작 원인을 규명
(장치내에 결함인지 사용장소에 문제가 있는 것인가 ?) (Trouble from where?)

⇩

EMI 장애 (EMI Trouble)

⇩

경로추적 (Tracing Loop)

⇩

경로별 대책 수립 (Troubleshooting Loop)

⇩

재 측 정 (Remeasure)

YES ⇩ NO

만족한 결과 (Satisfaction Result trouble kind)

EMI 이외 장애 (Trouble beside EMI)

고주파 이외의 EMI 대책
(Hi frequency countermeasure EMI solution)

※ EMI에 의한 EMI 대책 (Countermeasure against EMI)
① 고주파 Noise (High frequence Noise)
② 정전기 (Static electricity)
③ 낙뇌 (Lighting)
④ 순시정전 (Transient Power Fault)
⑤ 급격한 전압 변동 (Rapid voltage change)
⑥ 개폐서지 (ON-OFF SURGE)
⑦ 대전류 및 기타 (Heavy Current ETC.)

NOISE 종류 (Noise Mode)		오동작 현상 (Trouble Kind)	NOISE와 오동작의 상관관계 (Relation between Noise & Trouble)
A	직류적 Noise (DC Noise)	· Analogue 입력의 Data Shit (Analog input is Data Shift) · Analogue 입력 Data의 흐트러짐(Disturbance of analog input Data) · Digital 입력의 변화 (Digital input change) · Pulse 입력의 변화 (Pulse input change) · Pulse 입력의 Data Shift변화 (Pulse input data shift) · CPU 정지 (CPU stop) · 메모리에 잘못 기록됨 (Wrong writtting to memory) · Data 전송 에러 (Data Transmission error) · 잘못된 출력 (Wrong output) · 부품파손 · CRT 화면의 찌그러짐 (CRT screen distortion)	→ A, B, C
B	상용주파수 Noise (Frequency Noise)		→ B, C, D
C	RFI(EMI)		→ A, B, D
D	EFT		→ A, B
			→ E, F
E	SURGE or ESD		→ D, E, F
			→ D, E, F
			→ C, E, F
F	순시정전 (Transient Power Fault)		→ D, E
			→ A, B, D, E
G	자계 (magnetic fields)		→ G

2. NOISE 발생의 3대 요소 Three factors of noise generation

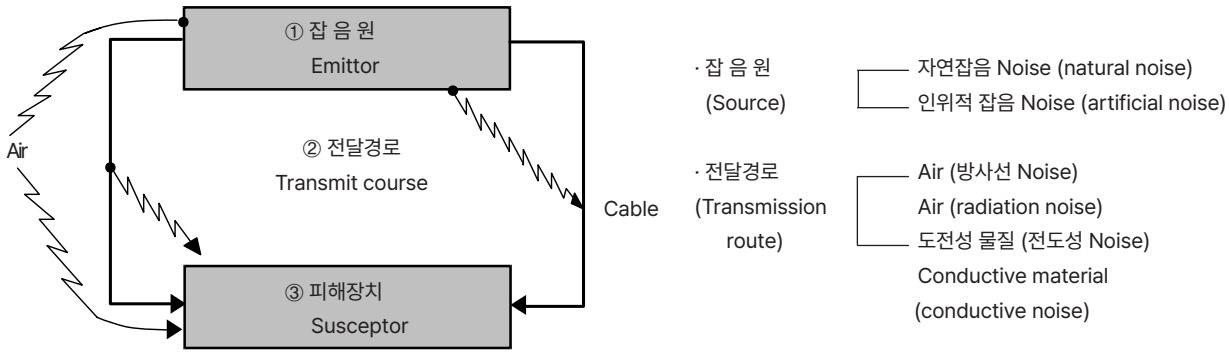


TABLE 1

2 – 1. 전기제어 장치의 Noise 경로 (Noise channel of electronic controller)

NOISE의 전달 경로는 공중으로 전달되는 복사 Noise와 주전원 Line 으로 전달되는 전도 Noise 2 종류가 있습니다.
(There are two types including radiation noise which is transferred to the air and conductive noise which is delivered to the major electric power line.)

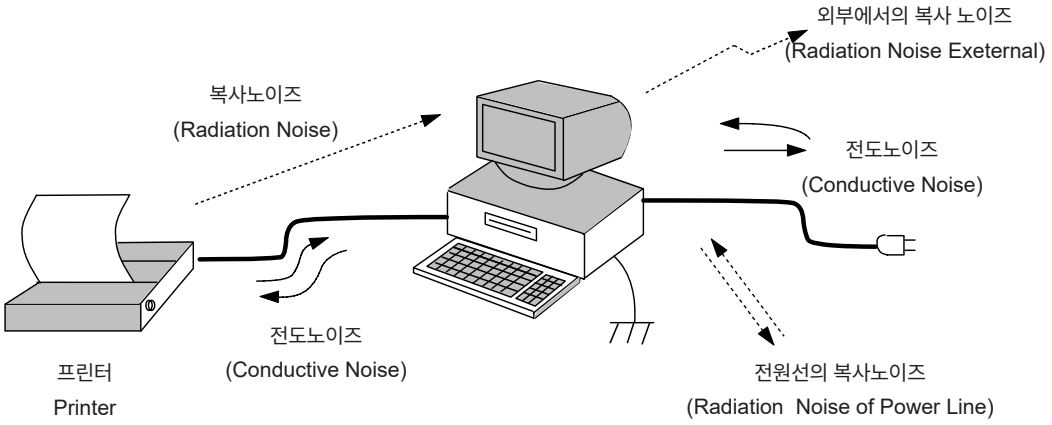


TABLE 2

3. 전도 노이즈 Conductive noise

3 – 1. Common Mode, Normal Mode Noise

전도 노이즈는 표 3 과 같이 Line과 어스간을 전달하는 Common Mode Noise(비대칭잡음)과 Line 간을 왕복하는 Normal Mode Noise(대칭잡음)가 있습니다. 특수한 경우를 제외한 이 2 종류의 노이즈가 항상 존재합니다.

Concerning conductive noise, there are two types as manifested in Table 3 such as common mode noise which delivers between line and us and normal mode which moves around between lines. Other than exceptional case, these two type of noise always exist.

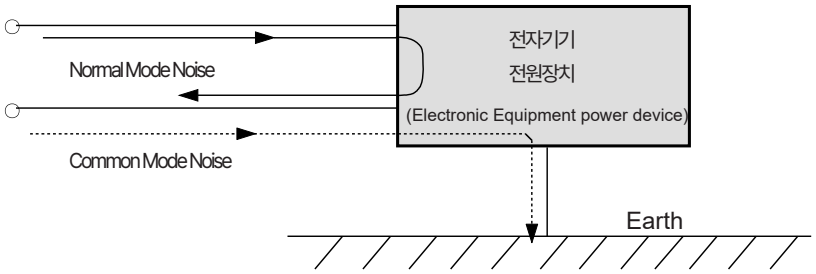


TABLE 3

3 – 2. Noise Filter의 원리 (Principle of noise filter)

가장 일반적인 Noise Filter의 회로는 표4와 같습니다.
The most common circuit of noise filter is indicated in Table 4.

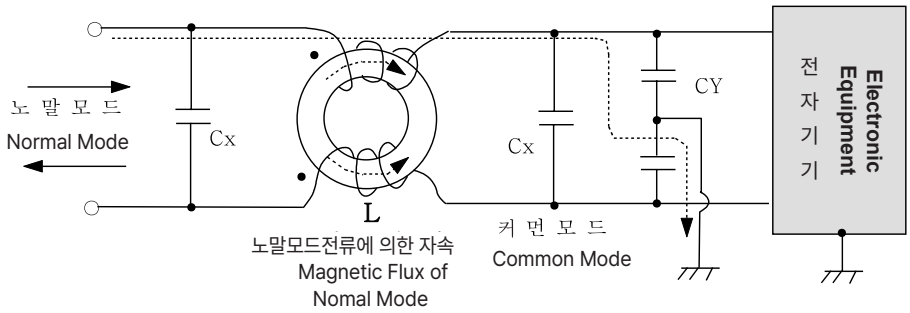


TABLE 4

노이즈 필터는 일종의 저감 Filter이며 또 차단 주파수는 높은 주파수에서 감쇄 효과가 있습니다. 노이즈 필터용으로 사용하는 코일은 Common Mode Choke Coil이며 1개의 Core에 2개의 권선이 동상에 있습니다. 이 때문에 통상 전원 전류에서는 내부의 자속이 없어지게 됩니다. 인덕턴스는 대부분 없어져 노말모드 노이즈의 감쇄효과는 그다지 없습니다. Common Mode 전류에 대해서는 커다란 인덕턴스를 얻도록 된 제품입니다. 이에 對地콘덴서 Cy와 함께 콤먼모드 노이즈의 감쇄에크게 기여합니다. 또한 노말모드 노이즈에 대해서는 콘덴서 Cx 를 삽입 하므로써 감쇄 효과를 얻도록 된 제품입니다. 위와 같이 표4의 필터는 Normal Mode, Common Mode의 양 노이즈의 저지에 효과가 있습니다. 각각의 모드에서 등가회로는 표5와 같습니다.

Noise filter is kind of low pass filter and frequency of interception is reduced at the high frequency. Coil of noise filter is common mode chock coil and there are two coils in one core at the same phase. Because of it, magnetic flux electricity disappears at the electric current in general frequency. Because inductance mostly disappears, the effect of reduction of normal noise is not great. It is a product which obtains large inductance for common mode current. It reduces substantially common mode noise with condenser CY to the ground. Reduction can be obtained by inserting condenser Cx in terms of normal mode noise. Filter at the Table 4 intervenes noise of both normal mode and common mode. Equivalent circuit of each mode is as indicated in Table 5.

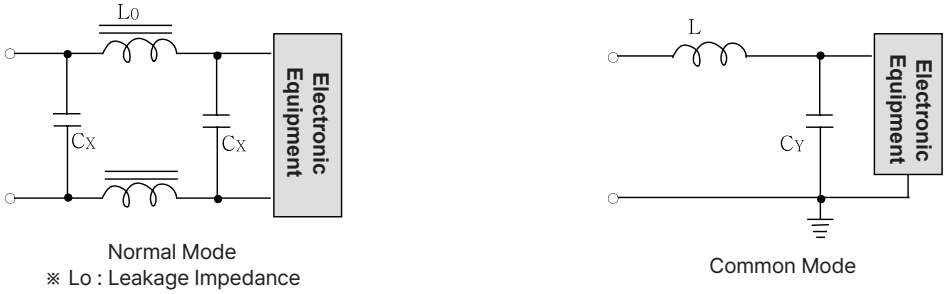


TABLE 5

4. 전자파 규제에 대한 규격 및 참고자료 Specification relevant to the regulation of electromagnetic and references

1990년 전기, 전자기기의 사용 급증으로 이들 기기에서 발생하는 불요전자파에 의한 통신 장해 및 기기 오 동작으로 인한 산업재해 유발을 예방하고 선진국 보호무역주의에 적극 대처 하므로서 국내 전파 환경 보호 및 국내 제품의 국제 경쟁력을 제고하기 위해 국내 EMI 검정 규칙이 시행되어 오고 있다.

EMI regulation has been implemented since 1990 in order to prevent industrial accident resulted from impediment of communication and error of devices by electromagnetic of electric and electronic devices and to cope with the protective trade regime of developed countries so that domestic environment can be protected and international competitiveness of domestic products can be strengthened.

4 – 1. 전자파 적합등록 / 세부대상 기기 (Detailed item)

대상기기 (Relevant device)	EMI std.	EMS std.	세부사항기기류 (Detailed item)
1) 산업과학, 의료용 등 고주파 이용기기류 – 약사법에 의한 의료 용구 · 호흡보조기, 내장기능대용기, 보육기 등 · 방사선 진료장치, 비전리 진단장치, 전기 수술기 등 · 전자파 관련 모든 의료용구 1) Device to use high frequency such as industrial science and medical – Medical devices by pharmaceutical and mediacl law. · Breathing assistance, device to replace organ, deviece to care child · Radiation device, diagnosis of non ionization, electric operating device etc. · All medical devices relevant to lectromagnetic.	1997. 7. 1 1998. 1. 1 1999. 1. 1 2000. 1. 1	2000. 1. 1 1998. 1. 1 1999. 1. 1 2000. 1. 1	산업, 과학 의료 및 가정용으로 고주파 에너지를 발생하거나 이를 부분적으로 이용하도록 설계된 장치 및 기기로서 전기용품 안전관리법 및 약사법에 의한 형식승인 및 품목허가 대상 기기 Equipment or devices for industrial, scientific / medical and housing application which are designed to create high frequency energy or partly use. They are governed by safety control law fo electric devices and application and permission regulation of pharmaceutical law.
2) 자동차 및 불꽃 점화 엔진 구동기기류 · 승용자동차 · 4.5톤 이하 승합, 화물 및 특수자동차 · 모든 자동차 2) Engine machine for automobile and ignition · Automobile vehicle of below 4.5ton, truck / special vehicle · All automobiles	1997. 7. 1 1997. 1. 1 2000. 1. 1	1997. 7. 1 1999. 1. 1 2000. 1. 1	전파 통신이나 방송수신 등에 방해가 되는 기기로서 자동차 관리법의 규정에 의하여 형식승인을 얻어야 하는 기기로 한다. 다만 이륜자동차와 자동차의 최고 속도가 매시 25Km 이하인 자동차는 제외 Devices which intercept electronic communication or broadcasting and must be approved according to law of automobile control except vehicle of two wheels and automobile of which max. speed per hour is less than 25Km.
3) 방송 수신 기류 Receiver device for broadcast	1997. 7. 1	2000. 1. 1	9kHz부터 1GHz까지의 주파수 범위 내의 방송 또는 유사 정보를 수신하기 위한 음성 및 텔레비전 수신기와 이에 직접 연결되어 음성 또는 시각 정보를 생성하거나 재생하기 위한 기기로서 전기용품 안전관리법에 의한 형식승인 대상 기기로 한다. Voice and TV receiver to receive broadcast from 9kHz to 1GHz or similar data. And devices to create or renew voice or visual data by direct connect to them. They are governed by safety control law of electric goods in terms of specification.

4. 전자파 규제에 대한 규격 및 참고자료 Specification relevant to the regulation of electromagnetic and references

대상기기 (Relevant device)	EMI std.	EMS std.	세부사항기기류 (Detailed item)
4) 가정용 전기기기 및 전동기기류 Electronic devices and motor at home appliance	1997. 7. 1	2000. 1. 1	산업, 과학 의료 및 가정용으로 고주파 에너지를 발생하거나 이를 부분적으로 이용하도록 설계된 장치 및 기기로서 전기용품 안전관리법 및 약사법에 의한 형식승인 및 품목허가 대상 기기 Equipment or devices for industrial, scientific / medical and housing application which are designed to create high frequency energy or partly use. They are governed by safety control law fo electric devices and application and permission regulation of pharmaceutical law.
5) 형광등 등 조명기기류 Fluorescent light and lighting etc.	1997. 7. 1	2000. 1. 1	전파 통신이나 방송수신 등에 방해가 되는 기기로서 자동차 관리법의 규정에 의하여 형식승인을 얻어야 하는 기기로 한다. 다만 이륜자동차와 자동차의 최고 속도가 매시 25Km 이하인 자동차는 제외 Devices which intercept electronic communication or broadcasting and must be approved according to law of automobile control except vehicle of two wheels and automobile of which max. speed per hour is less than 25Km.
6) 고전압 설비 및 그 부속기기류 Facility of high voltage and annexed devices	To be determine	2000. 1. 1	추후 결정 (It is subject to be decided later.)
7) 정보기기류 Information device etc.	1997. 7. 1	2000. 1. 1	전자파 적합등록 및 규칙 제2조 제3호의 규정(데이터 및 통신 메세지의 입력, 출력, 저장, 검색, 전송 또는 제어 등의 주요 기능과 정보 전송용으로 작동되는 1개 이상의 터미널 포트를 갖춘 기기로서 600볼트 이하의 공급 전압을 가진 기기 중 전파법 제2조 제4호의 규정에 의한 무선설비를 제외한 기기)에 의한 기기로서 컴퓨터와 그 주변기기, 터미널 포트가 있는 내장 구성품 및 유선통신 단말기 등으로 한다. Device governed by registration of electromagnetic and article 2 and 3 (device which has a function of data / communication, input / output / save / search / transmit or control of message and dperates for information transmission with more than one terminal port and has less than 600 volt supply other than wireless facility which is governed by article 2 and 4 frequency law) and components which have computer, elevant equipment and terminal port and wire communication terminal etc.

4. 전자파 규제에 대한 규격 및 참고자료 Specification relevant to the regulation of electromagnetic and references

4 – 2. 정보기기류의 세부 품목 (Detailed item of information devices)

(전자파 적합 등록 규칙 제2조 제2호의 규정에 의한 정보기기)
(Information devices in accordance with Article 2 .2 of registration of electromagnetic)

대상기기 (Relevant device)	세부적용품목 (Detailed item)	내 용 (Note)
1) 컴퓨터 (Computer)	대형, 중형, 소형, 퍼스널 컴퓨터 워크스테이션, POS 단말기 및 워드프로세서 등 모든 컴퓨터 All computers such as large, medium and small sized personal computer workstaion, POS terminal and word processor	
2) 컴퓨터 주변기기 Miscellaneous device of computer	· 외장형 기억장치 (External Memory) · 외장형 디스크 드라이브 (External disk drive) · 스캐너 (Scanner) · 디지타이져 (Digitizer) · 마우스 (Mouse) · 디지탈 카메라 (Digital camera) · 키보드 (Key board) · 플롯터 (Floater) · 프린터 (Printer) · 프린터, 모니터 등의 공유기 (Common device of printer and monitor) · 터미널 (Terminal) · 전자게임기 (Electronic game) · 기타 (Others)	
3) 터미널 포트가 있는 Components contained in internal computer with terminal port	· 마더보드 (Mother board) · 전원공급기 (Power supplier) · 입출력 인터페이스 카드 (input / output interface card) · 비디오 카드 (Video card) · 멀티미디어 카드 (MPEG, Sound, TV 카드 등) · 디스크 드라이브 (하드, 플로피 CD 등) Disk drive (hard, floppy, CD etc.) · 기타 (Others)	
4) 유선통신 단말기기 Wire communication terminal device	· 근거리 통신용 통신기기 (Short distance communication device) · 랜(LAN) 카드 (LAN card) · 트랜시버(LAN)용 Transceiver · 브릿지 (BRIDGE) · 허브 (HUB) · 기타 (Others)	전기통신 기본법에 의한 형식승인을 받은 기기는 제외 형식 승인 신청 시 성적서에 적합 등록 성적서 첨부 Other than the device which has been approved for specification according to the basic law of electric communication. Proper to the score in case of application of spec. Enclosing score of registration.

4. 전자파 규제에 대한 규격 및 참고자료 Specification relevant to the regulation of electromagnetic and references

4 - 3. 전자파 방지기준 (방사 / 전도) Standard to prevent electromagnetic (Radiation / Conduction)

Part		제 / 개정 (Regulation / Revision)		
		Distance(m)	Frequency(MHz)	Strength(dBuV/m)
1) 산업, 과학, 의료용 등 고주파 이용 기기류 Devices of high frequency such as industrial, scientific and medical	방사기준 Standard of radiation	30	30 ~ 230 230 ~ 1000	30 37
	전도기준 Standard of conduction	–	0.15 ~ 5 5 ~ 30	56 ~ 46 50
2) 자동차류 (Automobiles etc.) · 광대역기준 (Wide area) · 협대역기준 (Narrow area)		10	30 ~ 1000 30 ~ 1000	34 ~ 45 24 ~ 35
3) 방송수신기기류 Receiver of broadcast	방사기준 Standard of radiation	3	300 이하 300 ~ 1000	57 56
	전도기준 Standard of conduction	–	0.15 ~ 30	56 ~ 46
4) 가정용 전기기기 및 전동기기류 Electric devices appliance at home	방사기준 Standard of radiation	3	30 ~ 300	35 ~ 45 (dBpW)
	전도기준 Standard of conduction	–	0.15 ~ 30	59 ~ 46
5) 형광등 등 조명기기류 (Fluorescent light and lighting etc.)		· 형광등의 삽입 손실 기준 등 4개 기준 (4 Standards loss of insertion of fluorescent light)		
6) 고전압 설비 및 그부속기기류 High voltage facility and components	–	–	–	추후 제정 (To be decided)

4 - 3 - 1. 정보기기류 (Information Devices)

I) 전도기준 (Standard Conduction)

Part	Frequency (MHz)	한계치(dBμV) (Limit)		
		Distance(m)	Frequency(MHz)	
A급 기기 Class : A	0.15 ~ 0.5 0.5 ~ 30	30	30 ~ 230 230 ~ 1000	주1) 준 첨두치로 측정한 값이 평균치의 허용기준 이내 이면 평균치의 허용 기준에 만족하는 것으로 봄 It is content with the permission standard of the average if it measures within the permission standard of the average in quasi peak.
B급 기기 Class : B	0.15 ~ 0.5 0.5 ~ 5 5 ~ 30	–	0.15 ~ 5 5 ~ 30	주2) 주파수의 대수적 증가에 따라 직선적으로 감소 It decreases in a linear line according to the logarithmic increase of frequency.

II) 방사기준 (Standard of radiation)

Frequency (MHz)	준첨두치 한계치(dBμV /m /m) Quasi peak limit	
	Class : A (10cm)	Class : B (10cm)
30 ~ 230 230 ~ 1000	40 47	30 230 ~ 1000

4. 전자파 규제에 대한 규격 및 참고자료 Specification relevant to the regulation of electromagnetic and references

4 - 4. 전자파 내성기준 (EMS/Electromagnetic Susceptibility)

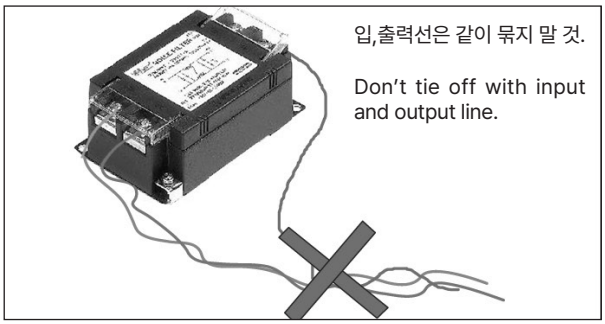
Part	Test Part	Frequency(MHz)	Syandard	Remark
① 산업, 과학, 의료용 등 고주파 이용기기류 일반내성기준 General EMS standard Devices of high frequency such as industrial, scientific and medical	정전기방전 (ESD) 전자파방사 (REF)	30 ~ 500	4KV 3V/m	–
② 자동차 (Automobiles etc.)	전자파방사 (REF)	20 ~ 1000	20V/m	–
③ 방송 수신 기기 기류 (Receiver of broadcast)	전자파방사 (REF) RF 전도전류 (RF－CC)	0.15 ~ 150 26 ~ 30	Audio, Video S/N 40dB	Apply Level 125dBμV
④ 가정용 기기 기류 Electric devices/motor at home appliance	정전기방전 (ESD) 전자파방사 (REF) 서지 (Surge)	80 ~ 1000	4KV 3V/m 1KV	–
⑤ 형광등 등 조명기기 류 Fluorescent light and lighting etc.	정전기방전 (ESD) 전자파방사 (REF)	– 30 ~ 500	4KV 3V/m	–
⑥ 고전압설비 및 그부속 기기류 High voltage facility and components	정전기방전 (ESD) 전자파방사 (REF)	– 30 ~ 500	4KV 3V/m	–

4 - 4 -1. 정보기기류 (Information Devices)

Test Part	Test Terminal	Std.	Unit	Class	Remark
정전기 방전 (ESD)	표면 단자 Terminal	8(None Touch) 4(Touch)	KV	B	–
전자파 방사 (REF)	표면 단자 Terminal	80 ~ 1000	MHz V/m	A	–
전기적 빠른 과도 현상 (Brust)	입출력 교류 전원 단자 Power Terminal	1 5 / 50 5	KV(Peak) Tr / Th ns KHz (Repeated)	B	–
	입출력 교류 전원 단자 외 Control Terminal	0.5 5 / 50 5	KV(Peak) Tr / Th ns KHz (Repeated)	B	–
서지 (Surge)	적용단자 Application Ter.	1 1.2 / 50	KV(Peak) Tr / Th ns	B	–

5. NOISE FILTER 사용상 주의 Precaution in using noise filter

1) Noise Filter의 입,출력은 분리하고 가깝게 붙이지 않도록 하여 주십시오.
Please separate input and output wire of noise filter not to be loser each other.



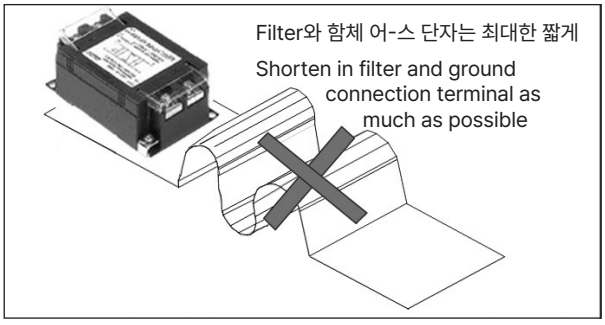
입출력선을 가까이 붙이거나 또는 묶으면 Coupling에 의하여 Filter로 제거한 노이즈를 재차 걸러내야 합니다. 또 가깝게 붙이지 않더라도 입력선을 함체내에 같이 배선되면 함체내에 Noise가 방사됩니다. Noise Filter는 기기의 입구에 설치하고 입출력 배선은 가능한 차폐를 하여 주십시오.
When input and output line are closer or combined, noise must be screened repeatedly by coupling of filter. If input line is wired together in the container though not combined, noise is radiated. Noise filter must be installed at the entry of device and wiring of input and output are required to be shield if possible.

2) Noise Filter의 접지단자는 함체에 최단거리에 접속하여 주십시요.
Please connect ground earth terminal of noise filter in the shortest distance



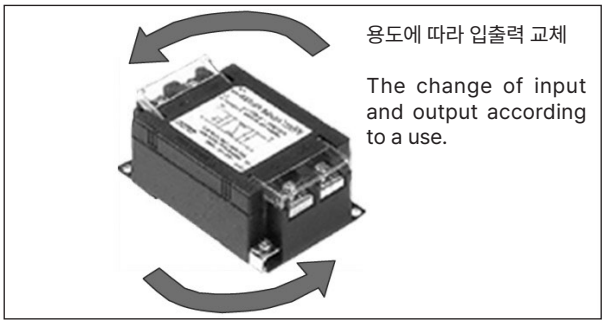
Common Mode Noise는 Noise Filter속에 Condenser를 통하여 어스로 흐릅니다. 어스 Line을 길게 엮어놓으면 어스 임피던스가 높아지든지 감쇄 특성이 저하 됩니다. Filter의 금속 Case가 접지단자를 겸하는 것이므로 필터를 함체에 전기적으로 밀착하여 주십시요.
Common mode noise flows to earth through condenser in the noise filter. If earth line is tied long, either earth impedance is higher or effect of decrease is weakened. Because metal case of filter is also earth terminal, filter must be close to electrically the panel as much as possible.

3) Noise Filter의 접지점(취부점) 과 함체의 접지점은 최대한 짧게 하여 주십시오.
Please shorten the earth point between earth point of noise filter and that of panel as much as possible.



Noise Filter의 어스에는 Noise 전류와 Line주파수에 의하여 누설전류가 흐릅니다. 따라서 함체내를 전기적으로 빈틈없이 밀착 고정하여 주십시요.
Common mode noise and leakage current of power flows to earth terminal therefor must electrically close filter and in the panel.

4) Noise Filter의 삽입방향에 주의하여 주십시오.
Please be aware of the direction to insert at the noise filter

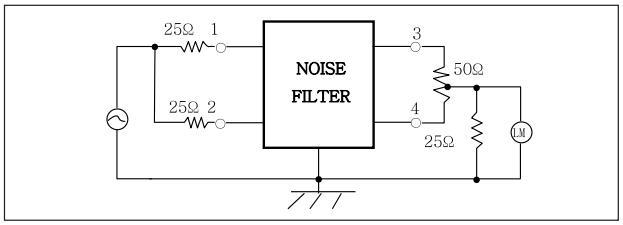


NOISE FILTER는 외래 NOISE에 대해서도 유출 노이즈와 같이 효과가 있습니다만 내부회로는 입출력 대칭일 경우가 보통입니다. 일반적으로 입출력 임피던스는 주파수에 의해 일치하지 않습니다. 또 사용하는 LINE의 기기 임피던스도 각각 다릅니다. NOISE FILTER에는 입력 방향을 표시합니다만 보다 효과를 높이기 위해서는 반대 방향도 비교하여 좋은 결과를 얻는 방향으로 설치하여 주십시요.
Though noise filter has an similar effect of leaking noise for external noise, internal circuit is commonly symmetry between input and output. Impedance of input and output are in general inconsistent with the frequency. Impedance of device of line to be used is also different. Though direction of input is indicated at noise filter, it is recommended to install in a consideration of the opposite direction.

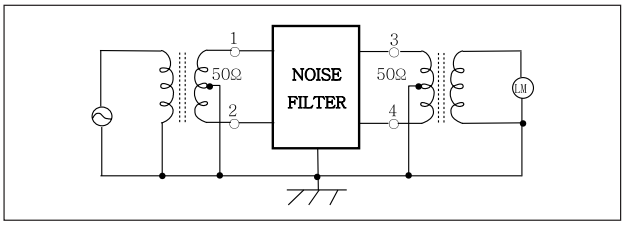
6. NOISE FILTER 의 측정방법 Noise Filter Test Method

6 - 1. 감쇄특성, 정특성 (Attenuation character and static characteristic)

•커먼 모드(Common Mode)비대칭파 (Asymmetrical)

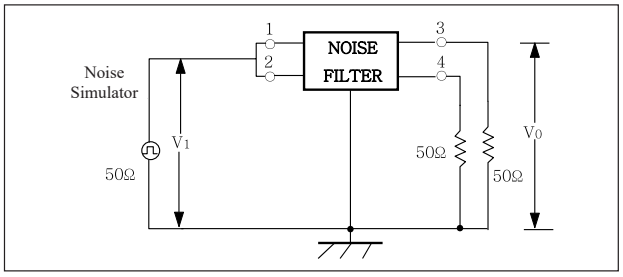


•노말 모드(Normal Mode)대칭파 (Symmetrical)

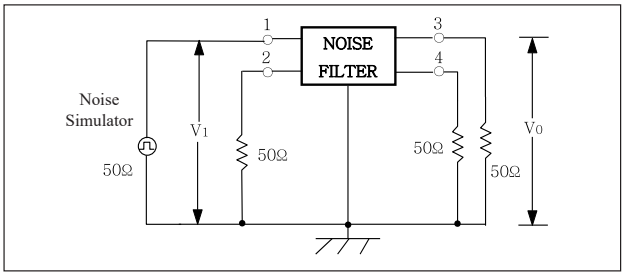


6 - 2. PULSE 감쇠특성, 정특성 (Attenuation character, static characteristic)

•커먼 모드(Common Mode)비대칭파 (Asymmetrical)

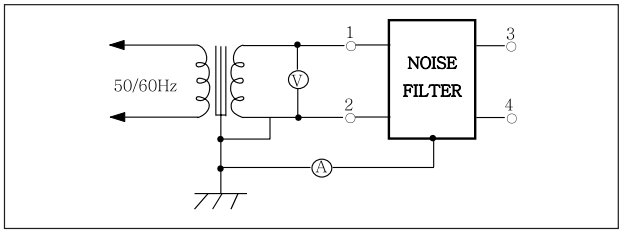


•노말 모드(Normal Mode)대칭파 (Symmetrical)

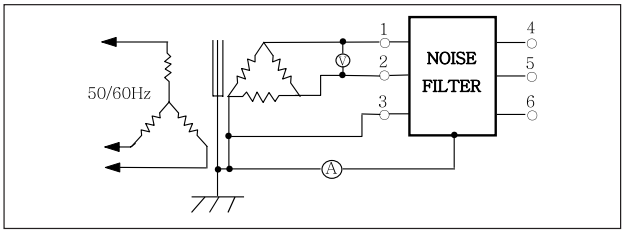


6 - 3. 대지(對地)누설전류 (Ground Leakage Current)

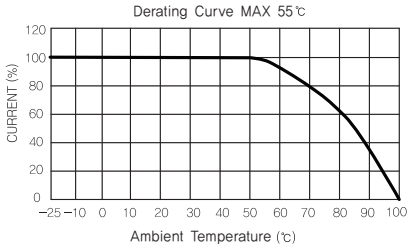
•단상 (1Phase)

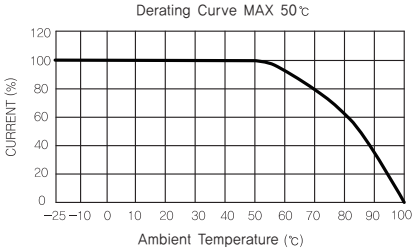


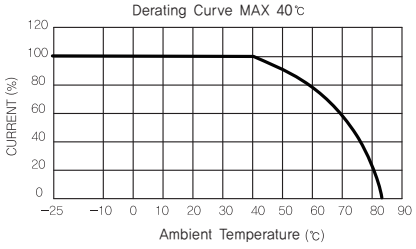
•삼상 (3Phase)



6 - 4. Derating Curve







7. 인버터 후단용 NOISE FILTER (Noise filter at the output stage of inverter)

현재 산업용 기계장치의 주류를 이루는 제품에 있어 EMI는 설비가 올바르게 동작을 수행 하는데 치명적인 방해요소가 되고있다. 정상동작을 방해하고 프로그램 등을 파괴시킨다. 특히 인버터를 채용한 장비이거나 모터를 제어하는 기능을 가진 장비는 자체적인 오동작의 피해뿐만 아니라 인접한 설비까지도 피해를 준다. 인버터의 경우와 같이 스위칭을 통해 전원을 변환하는 장치의 출력을 동작 전원으로 사용하거나 그 가까이에 위치한 전자기기는 출력을 따라 유출되는 EMI의 영향을 받게 된다.
특히, PWM방식인 인버터의 경우 출력이 펄스 방식인 PWM파형으로 그 자체가 매우 큰 EMI를 가지게 된다.
전자기기를 EMI로 부터 보호하기 위하여 인버터 후단용 전용 노이즈필터를 전원 장치등의 후단에 장치 하므로서 출력선을 따라서 유출되는 EMI의 크기를 줄여 주어 장비의 안전한 동작에 도움을 주는 역할을 하게 된다.

For most industrial machines and devices, EMI poses as a critical interference to the successful operation of equipment. It hinders normal operation and destroys programs. If an error occurs, an equipment which uses an inverter or an equipment carrying an ability to control motor causes damage not only to itself but also to other adjacent equipment. As in the case of an inverter, an electric equipment which uses, as its operating power supply, the output of the device which converts power supply through switching or an electronic equipment located nearby will be affected by EMI discharged along the output line.
In the case of PWM inverter in particular, output is PWM waveform, the pulse system which in itself carries extremely large level of EMI. To protect electronic equipment from EMI, noise filters designed for installing at the output stage of the inverter are mounted at the back of the power supply system to reduce the amplitude of EMI discharged along the output line helping equipment operate in a safe way.

NOISE FILTER

노이즈 필터

NOISE FILTER 모델 설명
(MODEL EXPLANATION)

WY N F - S 06 T 1 A (D)

● 취부유형 (Mounting type)
- D : DIN Rail type
- A : Option

● 품질유형 (Quality Type)
- A : 보급형 (General type)
- B : 고급형 (High Quality type)
- C : 인버터후단용 (Inverter output type)
- M : 고감쇄형(다단형) (Multi-stage type) (High Attenuation)

● 케이스유형 (Case Type)
- 1 : 플라스틱 케이스 (Plastic case)
- 2 : 철재 케이스 (Steel case)

● 연결 단자 유형 (Connection Type)
- A : 땜식 단자형 (Soldering type)
- B : 볼트형 (Bolt type)
- C : 콘센트형 (Outlet type)
- L : 리드형 (Cable type)
- P : PCB형 (PCB insert type)
- S : Busbar형 (Bus-bar type)
- T : Terminal block형 (Terminal block type)

● 정격전류 (Rated current)
- 05 : 5A
- .
- .
- .
- .
- 1200 : 1200A

● 필터 유형 (Filter Type)
- S : 1Ø 250V
- SH : 1Ø 500V
- T : 3Ø 250V
- TH : 3Ø 500V
- 4TH : 3Ø4W 500V
- D : DC 50V
- DH : DC 125V
- DU : DC 400V

● WYF : 운영노이즈필터 (Woonyoung Noise Filter)
N : New(NF) Series Type

1Ø AC 250V 고감쇄형 Multi-stage type

● 1Ø AC 250V

AC 250V

고감쇄형(경제형) 1Ø Multi-Stage Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYFS06T1M(D)	6	250	CE	530
WYFS10T1M(D)	10		CE	
WYFS15T1M(D)	15		CE	
WYFS20T1M(D)	20		CE	
WYFS30T1M(D)	30		CE	

N형 고감쇄형 1Ø Multi-Stage Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYNFS06T2M	6	250	CE	531
WYNFS10T2M	10		CE	
WYNFS15T2M	15		CE	
WYNFS20T2M	20		CE	
WYNFS30T2M	30		CE	
WYNFS40T2M	40		CE	
WYNFS50T2M	50		CE	
WYNFS60T2M	60		CE	532
WYNFS80T2M	80		CE	
WYNFS100T2M	100		CE	
WYNFS120T2M	120		CE	
WYNFS150T2M	150		CE	

고감쇄형 1Ø Multi-Stage Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYFS06T2M	6	250	CE	533
WYFS10T2M	10		CE	
WYFS15T2M	15		CE	
WYFS20T2M	20		CE	
WYFS30T2M	30		CE	
WYFS40T2M	40		CE	
WYFS50T2M	50		CE	
WYFS60T2M	60		CE	534
WYFS80T2M	80		CE	
WYFS100T2M	100		CE	

3Ø AC 250V 고감쇄형 Multi-stage type

● 3Ø AC 250V

AC 250V

N형 고감쇄형 3Ø Multi-Stage Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYNFT05T2M	5	250	KC CE cULus	540
WYNFT10T2M	10		KC CE cULus	
WYNFT15T2M	15		KC CE cULus	
WYNFT20T2M	20		KC CE cULus	
WYNFT30T2M	30		KC CE cULus	
WYNFT40T2M	40		KC CE cULus	541
WYNFT50T2M	50		KC CE cULus	
WYNFT60T2M	60		KC CE cULus	
WYNFT80T2M	80		KC CE cULus	
WYNFT100T2M	100		KC CE cULus	
WYNFT	120		KC CE cULus	
WYNFT150T2M	150		KC CE cULus	
WYNFT200T2M	200		KC CE cULus	
WYNFT250T2M	250		KC CE cULus	

고감쇄형 3Ø Multi-Stage Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYFT05T2M	5	250	KC CE	542
WYFT10T2M	10		KC CE	
WYFT15T2M	15		KC CE	
WYFT20T2M	20		KC CE	
WYFT30T2M	30		KC CE	
WYFT40T2M	40		KC CE	543
WYFT50T2M	50		KC CE	
WYFT60T2M	60		KC CE	
WYFT80T2M	80		KC CE	
WYFT100T2M	100		KC CE	
WYFT120T2M	120		KC CE	
WYFT150T2M	150		KC CE	
WYFT200T2M	200		KC CE	
WYFT250T2M	250		KC CE	
WYFT300T2M	300		CE	544
WYFT400T2M	400		CE	
WYFT500T2M	500		CE	545
WYFT600T2M	600		CE	546
WYFT800T2M	800		CE	
WYFT1000T2M	1000		CE	
WYFT1200T2M	1200		CE	

3Ø AC 500V 고감쇄형 Multi-stage type

● 3Ø AC 500V

AC 500V

N형 고감쇄형 3Ø Multi-Stage Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYNFTH05T2M	5	500	KC CE UL	547
WYNFTH10T2M	10		KC CE UL	
WYNFTH15T2M	15		KC CE UL	
WYNFTH20T2M	20		KC CE UL	
WYNFTH30T2M	30		KC CE UL	
WYNFTH40T2M	40		KC CE UL	548
WYNFTH50T2M	50		KC CE UL	
WYNFTH60T2M	60		KC CE UL	
WYNFTH80T2M	80		KC CE UL	
WYNFTH100T2M	100		KC CE UL	
WYNFTH120T2M	120		KC CE UL	
WYNFTH150T2M	150		KC CE UL	
WYNFTH200T2M	200		KC CE UL	
WYNFTH250T2M	250		KC CE UL	

고감쇄형 3Ø Multi-Stage Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYFTH05T2M	5	500	KC CE	549
WYFTH10T2M	10		KC CE	
WYFTH15T2M	15		KC CE	
WYFTH20T2M	20		KC CE	
WYFTH30T2M	30		KC CE	
WYFTH40T2M	40		KC CE	550
WYFTH50T2M	50		KC CE	
WYFTH60T2M	60		KC CE	
WYFTH80T2M	80		KC CE	
WYFTH100T2M	100		KC CE	
WYFTH120T2M	120		KC CE	
WYFTH150T2M	150		KC CE	
WYFTH200T2M	200		KC CE	
WYFTH250T2M	250		KC CE	
WYFTH300T2M	300		CE	551
WYFTH400T2M	400		CE	
WYFTH500T2M	500		CE	552
WYFTH600T2M	600		CE	553
WYFTH800T2M	800		CE	
WYFTH1000T2M	1000		CE	
WYFTH1200T2M	1200		CE	

3P4W 전용 Noise Filter

● 3P4W Series 500V

AC 500V

3P4W 전용

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYF4TH20T2M	20	500	KC CE	564
WYF4TH30T2M	30		KC CE	
WYF4TH40T2M	40		CE	565
WYF4TH50T2M	50		CE	
WYF4TH60T2M	60		CE	
WYF4TH80T2M	80		CE	566
WYF4TH100T2M	100		CE	
WYF4TH120T2M	120		CE	
WYF4TH150T2M	150		CE	
WYF4TH200T2M	200		KC CE	567
WYF4TH250T2M	250		KC CE	
WYF4TH300T2M	300		KC CE	
WYF4TH400T2M	400		KC CE	
WYF4TH500T2M	500		KC CE	
WYF4TH600T2M	600		KC CE	

DC Noise Filter

● DC 50V, 125V, 400V

DC 12V ~ 400V

50VDC 보급형

125VDC 보급형

400VDC 보급형

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYFD06T1A(D)	6	12VDC ~ 50VDC	CE	596
WYFD10T1A(D)	10		CE	
WYFD15T1A(D)	15		CE	
WYFD20T1A(D)	20		CE	
WYFD30T1A(D)	30		CE	
WYFD06T1A(D)	6	60VDC ~ 125VDC	CE	597
WYFD10T1A(D)	10		CE	
WYFD15T1A(D)	15		CE	
WYFD20T1A(D)	20		CE	
WYFD30T1A(D)	30		CE	
WYFD06T1A(D)	6	150VDC ~ 400VDC	CE	598
WYFD10T1A(D)	10		CE	
WYFD15T1A(D)	15		CE	
WYFD20T1A(D)	20		CE	
WYFD30T1A(D)	30		CE	

1Ø, 3Ø AC 250, 500V 고급형 High Quality type

● 1Ø, 3Ø AC 250 & 500V

AC 250 · 500V

고급형(EMI Filter) 1Ø High Quality Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYFS03C2M	3	250	CE	630
WYFS06C2M	6		CE	
WYFS10C2M	10		CE	
WYFS15C2M	15		CE	
WYFS30C2M	30		CE	

고급형 1Ø High Quality Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYFS06T1B(D)	6	250	KC CE	570
WYFS10T1B(D)	10		KC CE	
WYFS15T1B(D)	15		KC CE	
WYFS20T1B(D)	20		KC CE	
WYFS30T1B(D)	30		KC CE	
WYFS40T1B(D)	40		KC CE	571
WYFS50T1B(D)	50		KC CE	

N형 고급형 3Ø High Quality type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYNFT40T2B	40	250	KC CE	575
WYNFT50T2B	50		KC CE	
WYNFTH40T2B	40	500	KC CE	578
WYNFTH50T2B	50		KC CE	

고급형 3Ø High Quality Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYFT05T1B(D)	5	250	KC CE	574
WYFT10T1B(D)	10		KC CE	
WYFT15T1B(D)	15		KC CE	
WYFT20T1B(D)	20		KC CE	
WYFT30T1B(D)	30		KC CE	
WYFT40T2B	40		CE	576
WYFT50T2B	50		CE	
WYFTH05T1B(D)	5	500	KC CE	577
WYFTH10T1B(D)	10		KC CE	
WYFTH15T1B(D)	15		KC CE	
WYFTH20T1B(D)	20		KC CE	
WYFTH30T1B(D)	30		KC CE	
WYFTH40T2B	40		CE	579
WYFTH50T2B	50		CE	

1Ø AC 250 보급형 General type

● 1Ø AC 250 & 500V

AC 250, 500V

1Ø PCB Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYFS01P1	1	250	KC CE	584
WYFS02P1	2		KC CE	
WYFS03P1	3		KC CE	
WYFS06P1	6		KC CE	
WYFS01P3	1		KC CE	585
WYFS02P3	2		KC CE	
WYFS03P3	3		KC CE	
WYFS06P3	6		KC CE	

1Ø Wire Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYFS03L1	3	250	KC CE	586
WWYFS06L1	6		KC CE	

1Ø PIN Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYFS03A3	3	250	KC CE	587
WYFS06A3	6		KC CE	
WYFS03A2	3		KC CE	588
WYFS06A2	6		KC CE	

경제형 1Ø General Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYFS06TD	6	250	KC CE cULus	589
WYFS10TD	10		KC CE cULus	
WYFS15TD	15		KC CE cULus	
WYFS20TD	20		KC CE cULus	

N형 보급형 1Ø General Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYNFS40T2A	40	250	KC CE	593
WYNFS50T2A	50		KC CE	
WYNFS60T2A	60		KC CE	
WYNFS80T2A	80		KC CE	
WYNFS100T2A	100		KC CE	
WYNFS120T2A	120		KC CE	
WYNFS150T2A	150		KC CE	

보급형 1Ø General Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYFS03TM	3	250	KC CE	590
WYFS06TM	6		KC CE	
WYFS06T1A(D)	6	250	KC CE cULus	591
WYFS10T1A(D)	10		KC CE cULus	
WYFS15T1A(D)	15		KC CE cULus	
WYFS20T1A(D)	20		KC CE cULus	
WYFS30T1A(D)	30		KC CE cULus	
WYFS40T1A(D)	40	250	KC CE	592
WYFS50T1A(D)	50		KC CE	
WYFS60T2A	60	250	KC CE	594
WYFS80T2A	80		KC CE	
WYFS100T2A	100		KC CE	
WYFS120T2A	120		KC CE	
WYFS150T2A	150		KC CE	
WYFS200T2A	200		KC CE	
WYFSH06T1A(D)	6	500	KC CE	595
WYFSH10T1A(D)	10		KC CE	
WYFSH15T1A(D)	15		KC CE	
WYFSH20T1A(D)	20		KC CE	

3Ø AC 250, 500V 보급형 General type

● 3Ø AC 250 & 500V

AC 250, 500V

N형 보급형
3Ø General Type

보급형
3Ø General Type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYNFT40T2A	40	250	KC CE	609
WYNFT50T2A	50		KC CE	
WYNFT60T2A	60		KC CE	
WYNFT80T2A	80		KC CE	
WYNFT100T2A	100		KC CE	
WYNFT120T2A	120		CE	
WYNFT150T2A	150		CE	
WYNFT200T2A	200		CE	
WYNFT250T2A	250		CE	
WYNFTH40T2A	40	500	KC CE	615
WYNFTH50T2A	50		KC CE	
WYNFTH60T2A	60		KC CE	
WYNFTH80T2A	80		KC CE	
WYNFTH100T2A	100		KC CE	
WYNFTH120T2A	120		CE	
WYNFTH150T2A	150		CE	
WYNFTH200T2A	200		CE	
WYNFTH250T2A	250		CE	
WYFT05T1A(D)	5	250	KC CE cULus	608
WYFT10T1A(D)	10		KC CE cULus	
WYFT15T1A(D)	15		KC CE cULus	
WYFT20T1A(D)	20		KC CE cULus	
WYFT30T1A(D)	30		KC CE cULus	
WYFT40T2A	40	250	CE	610
WYFT50T2A	50		CE	
WYFT60T2A	60		CE	
WYFT80T2A	80		CE	
WYFT100T2A	100		CE	
WYFT120T2A	120		KC CE	
WYFT150T2A	150		KC CE	
WYFT200T2A	200		KC CE	
WYFT250T2A	250		KC CE	
WYFT300T2A	300	250	CE	611
WYFT400T2A	400		CE	
WYFT500T2A	500	250	CE	612
WYFT600T2A	600	250	CE	613
WYFT800T2A	800		CE	
WYFT1000T2A	1000		CE	
WYFT1200T2A	1200		CE	
WYFTH05T1A(D)	5	500	KC CE cULus	614
WYFTH10T1A(D)	10		KC CE cULus	
WYFTH15T1A(D)	15		KC CE cULus	
WYFTH20T1A(D)	20		KC CE cULus	
WYFTH30T1A(D)	30		KC CE cULus	
WYFTH40T2A	40	500	CE	616
WYFTH50T2A	50		CE	
WYFTH60T2A	60		CE	
WYFTH80T2A	80		CE	
WYFTH100T2A	100		CE	
WYFTH120T2A	120		KC CE	
WYFTH150T2A	150		KC CE	
WYFTH200T2A	200		KC CE	
WYFTH250T2A	250		KC CE	
WYFTH300T2A	300	500	KC CE	617
WYFTH400T2A	400		KC CE	
WYFTH500T2A	500	500	KC CE	618
WYFTH600T2A	600	500	KC CE	619
WYFTH800T2A	800		KC CE	
WYFTH1000T2A	1000		KC CE	
WYFTH1200T2A	1200		CE	

3Ø AC 250, 500V 인버터후단용 Inverter output type

● 3Ø AC 250 & 500V

AC 250 · 500V

인버터후단용
3Ø Inverter output type

MODEL	CURRENT (A)	VOLTAGE (V)	SAFETY STANDARDS	PAGE
WYNFT40T2C	40	250	CE	609
WYNFT50T2C	50		CE	
WYNFT60T2C	60		CE	
WYNFT80T2C	80		CE	
WYNFT100T2C	100		CE	
WYNFT120T2C	120		CE	
WYNFT150T2C	150		CE	
WYNFT200T2C	200		CE	
WYNFT250T2C	250		CE	
WYNFTH40T2C	40	500	CE	615
WYNFTH50T2C	50		CE	
WYNFTH60T2C	60		CE	
WYNFTH80T2C	80		CE	
WYNFTH100T2C	100		CE	
WYNFTH120T2C	120		CE	
WYNFTH150T2C	150		CE	
WYNFTH200T2C	200		CE	
WYNFTH250T2C	250		CE	
WYFT05T1C(D)	5	250	KC CE cULus	608
WYFT10T1C(D)	10		KC CE cULus	
WYFT15T1C(D)	15		KC CE cULus	
WYFT20T1C(D)	20		KC CE cULus	
WYFT30T1C(D)	30		KC CE cULus	
WYFT40T2C	40	250	CE	610
WYFT50T2A	50		CE	
WYFT60T2C	60		CE	
WYFT80T2C	80		CE	
WYFT100T2C	100		CE	
WYFT120T2C	120		CE	
WYFT150T2C	150		CE	
WYFT200T2C	200		CE	
WYFT250T2C	250		CE	
WYFT300T2C	300	250	CE	611
WYFT400T2C	400		CE	
WYFT500T2C	500	250	CE	612
WYFT600T2C	600	250	CE	613
WYFT800T2C	800		CE	
WYFT1000T2C	1000		CE	
WYFT1200T2C	1200		CE	
WYFTH05T1C(D)	5	500	KC CE cULus	614
WYFTH10T1C(D)	10		KC CE cULus	
WYFTH15T1C(D)	15		KC CE cULus	
WYFTH20T1C(D)	20		KC CE cULus	
WYFTH30T1C(D)	30		KC CE cULus	
WYFTH40T2C	40	500	CE	616
WYFTH50T2C	50		CE	
WYFTH60T2C	60		CE	
WYFTH80T2C	80		CE	
WYFTH100T2C	100		CE	
WYFTH120T2C	120		KC CE	
WYFTH150T2C	150		KC CE	
WYFTH200T2C	200		KC CE	
WYFTH250T2C	250		KC CE	
WYFTH300T2C	300	500	KC CE	617
WYFTH400T2C	400		KC CE	
WYFTH500T2C	500	500	KC CE	618
WYFTH600T2C	600	500	KC CE	619
WYFTH800T2C	800		KC CE	
WYFTH1000T2C	1000		KC CE	
WYFTH1200T2C	1200		CE	

노이즈필터
Noise Filter

1Ø 고감쇄형(Multi－Stage Type)







• 1Ø 250V 6 ~ 150A

1Ø 250V 고감쇄형 Multi-Stage Type

UL 인증



Features

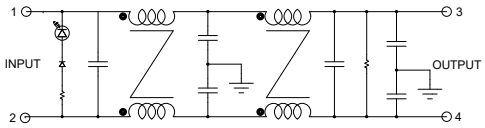
- 2 Mounting Option
  - WYF****D : Din Rail Mounting
  - WYF**** : Screw Mounting
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- KC(HK03001-22016B)
- UL Cer. No : E521164

Specifications

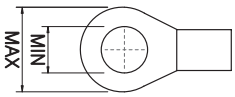
ITEM \ MODEL	SYMBOL	WYFS06T1M (D)	WYFS10T1M (D)	WYFS15T1M (D)	WYFS20T1M (D)	WYFS30T1M (D)
Rated Voltage	V	250				
Rated Current	A	6	10	15	20	30
Frequency	Hz	50 / 60				
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)				
Insulation Resistance	MΩ	500MΩ at the 500VDC				
Leakage Current	mA	≤2.6mA at 250VAC				
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−1]				
Operating Humidity	RH	35 ~ 85%RH				
Weight	kg	0.2				

※ Derating Curve of page 519

Circuit Diagram

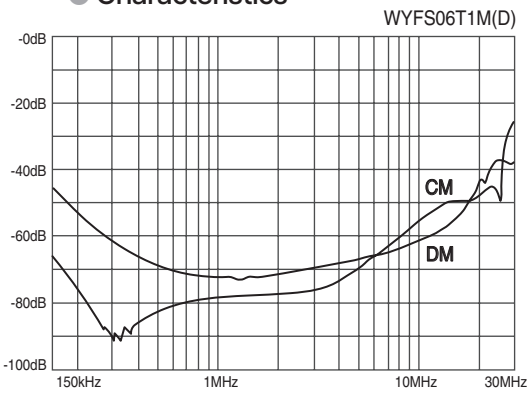


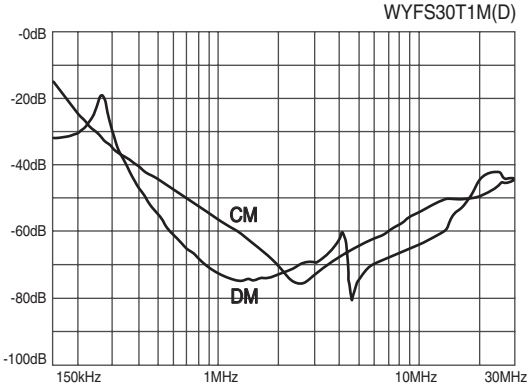
Terminal



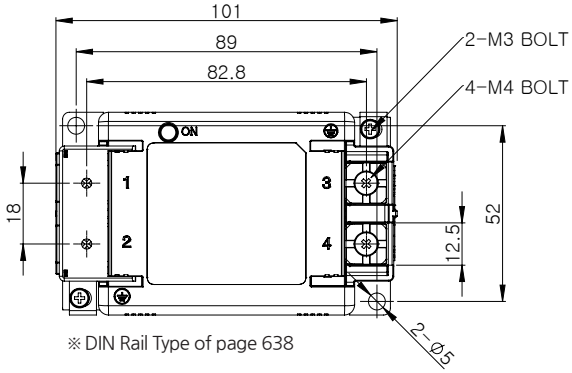
Max 12 , Min 4

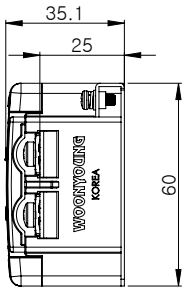
Characteristics





Dimension





※ DIN Rail Type of page 638

N Series 1Ø 250V 고감쇄형 Multi-Stage Type

UL 인증



Features

- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant
- UL Cer. No : E521164

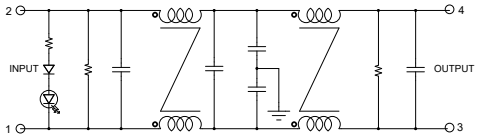
Specifications

ITEM \ MODEL	SYMBOL	WYNFS06T2M	WYNFS10T2M	WYNFS15T2M	WYNFS20T2M	WYNFS30T2M	WYNFS40T2M	WYNFS50T2M
Rated Voltage	V	250						
Rated Current	A	6A	10A	15A	20A	30A	40A	50A
Frequency	Hz	50 / 60						
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)						
Insulation Resistance	MΩ	500MΩ at the 500VDC						
Leakage Current	mA	≤3.2mA at the 250VAC						
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−1]						
Operating Humidity	RH	35 ~ 85%RH						
Weight	kg	2.4						

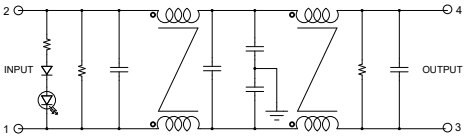
※Derating Curve of page 519

Circuit Diagram

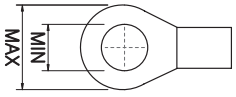
WYNFS06~20T2M



WYNFS30~50T2M



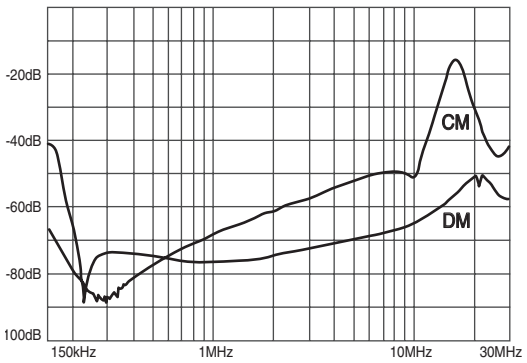
Terminal



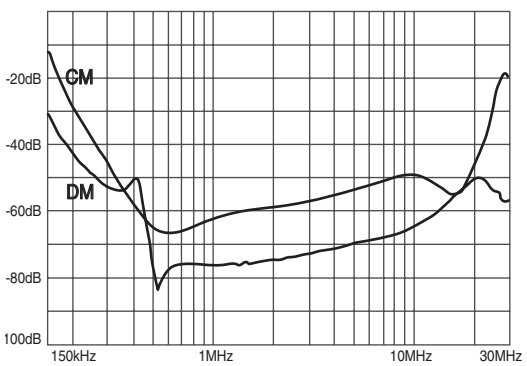
Max 10, Min 4 (6~20A)
Max 16, Min 5 (30~50A)

Characteristics

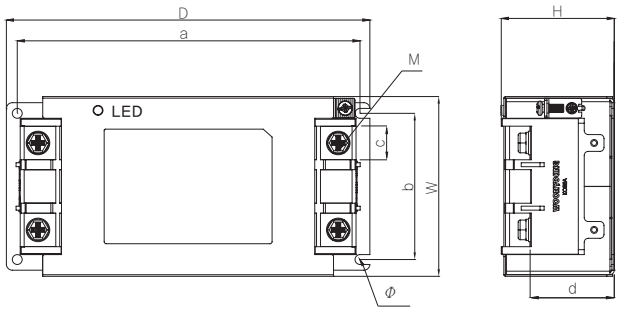
WYNFS06T2M



WYNFS50T2M



Dimension



MODEL	W	H	D	a	b	c	d	M	Ø
WYNFS06~20T2M	70.5	45	202	194	51.5	10.5	33	4	5
WYNFS30~50T2M	79.2	48.3	242	232	60	13	33.5	5	5

N Series 1Ø 250V 고감쇄형 Multi-Stage Type

RoHS

UL 인증



Features

- Wide Band : High Attenuation
- Band Width : 150kHz ~ 30MHz
- RoHS Compliant
- UL Cer. No : E521164

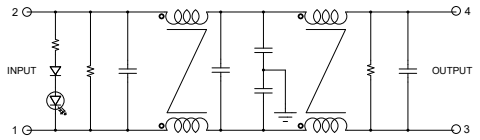
Specifications

ITEM \ MODEL	SYMBOL	WYNFS60T2M	WYNFS80T2M	WYNFS100T2M	WYNFS120T2M	WYNFS150T2M
Rated Voltage	V	250				
Rated Current	A	60A	80A	100A	120A	150A
Frequency	Hz	50 / 60				
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)				
Insulation Resistance	MΩ Ω	500MΩ at the 500VDC				
Leakage Current	mA	≤10.6mA at the 250VAC				
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−1]				
Operating Humidity	RH	35 ~ 85%RH				
Weight	kg	4.5		5.2		

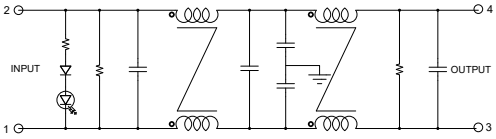
※ Derating Curve of page 519

Circuit Diagram

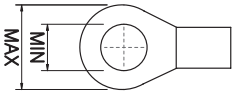
WYNFS60~80T2M



WYNFS100~150T2M



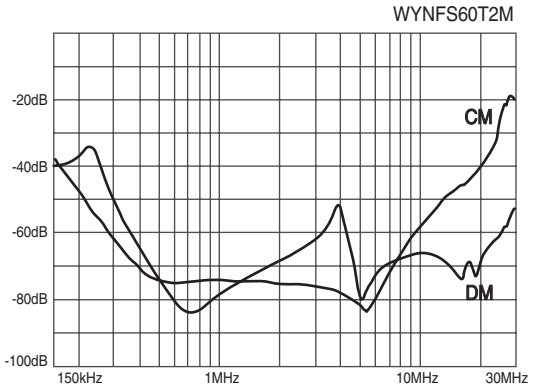
Terminal



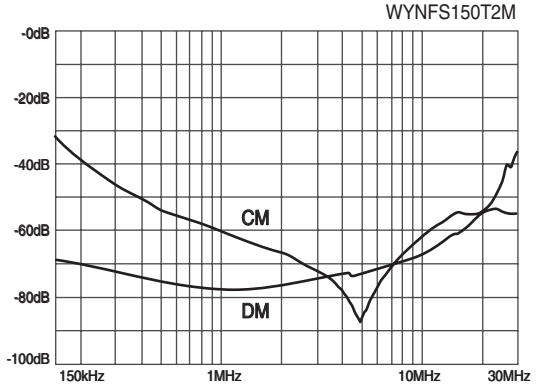
Max 16, Min 6 (60~80A)
Max 23, Min 8 (100~150A)

Characteristics

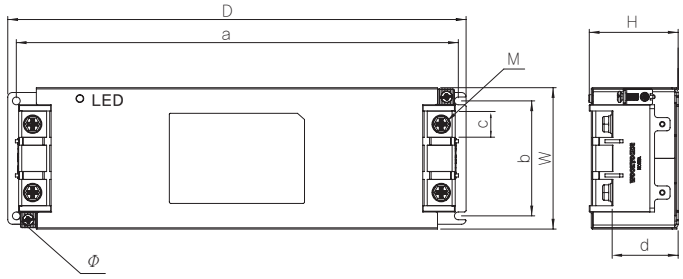
WYNFS60T2M



WYNFS150T2M



Dimension



MODEL	W	H	D	a	b	c	d	M	Ø
WYNFS60~80T2M	91	57.2	295	284.5	74	17	42.3	6	5
WYNFS100~150T2M	115	75	384.7	368	96	24	58	8	5

1Ø 250V 고감쇄형 Multi-Stage Type

RoHS



Features

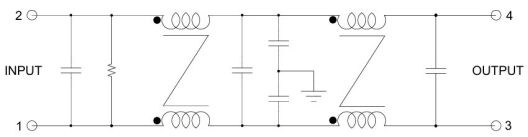
- High Attenuation
- High Voltage Pulse Noise
- 2 Stage Filter
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant
- KC(안전인증)
  Approved by HK03001-24027A

Specifications

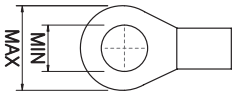
ITEM \ MODEL	SYMBOL	WYFS06T2M	WYFS10T2M	WYFS15T2M	WYFS20T2M	WYFS30T2M	WYFS40T2M	WYFS50T2M
Rated Voltage	V	250						
Rated Current	A	6	10	15	20	30	40	50
Frequency	Hz	50 / 60						
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)						
Insulation Resistance	MΩ	500MΩ at the 500VDC						
Leakage Current	mA	≤1.5mA at the 250VAC						
Operating Temperature	℃	-25℃ ~ +100℃ [Refer to Derating Curve TYPE-1]						
Operating Humidity	RH	35 ~ 85%RH						
Weight	kg	0.8			1.7			

※ Derating Curve of page 519

Circuit Diagram



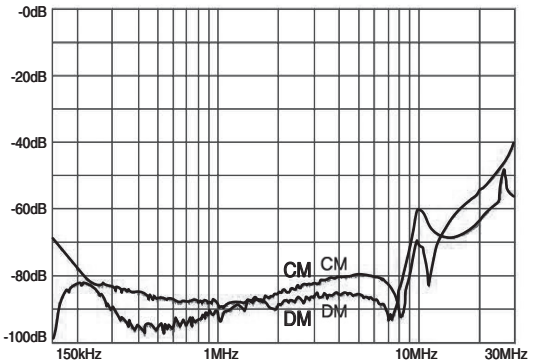
Terminal



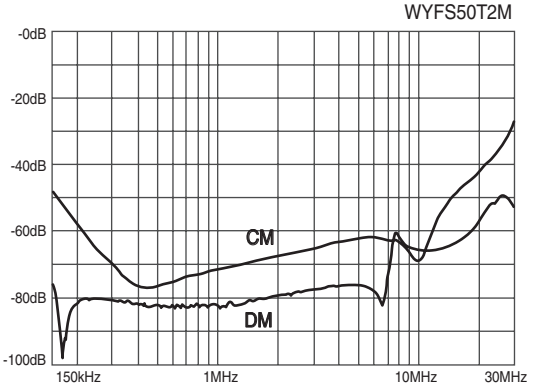
Max 10, Min 4 (6~20A)
Max 14, Min 4 (30~50A)

Characteristics

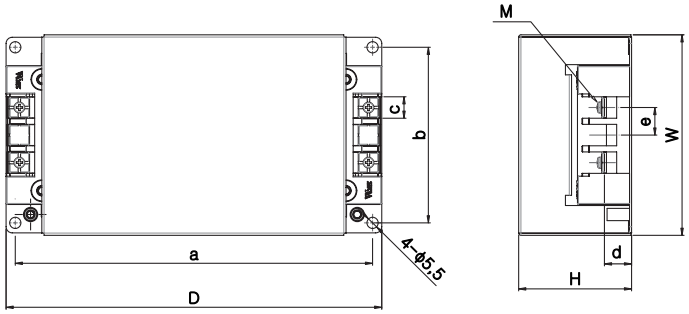
WYFS06T2M



WYFS50T2M



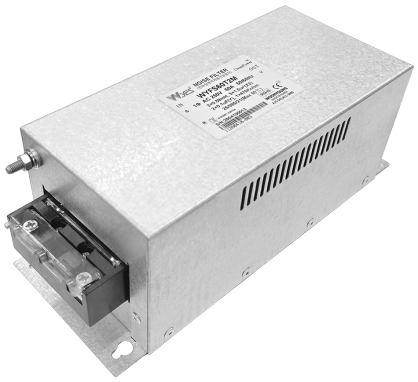
Dimension



MODEL	W	H	D	a	b	c	d	e
WYFS06~20T2M	98	55	184	175	86	10.5	13	13.5
WYFS30~50T2M	116	75	234	219	98	15	18	27.5

1Ø 250V 고감쇄형 Multi-Stage Type

RoHS



Features

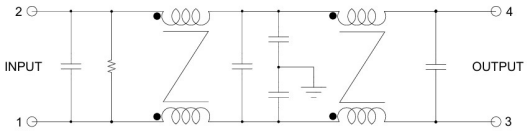
- High Attenuation
- High Voltage Pulse Noise
- 2 Stage Filter
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant

Specifications

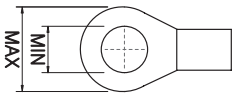
ITEM \ MODEL	SYMBOL	WYFS60T2M	WYFS80T2M	WYFS100T2M
Rated Voltage	V	250		
Rated Current	A	60	80	100
Frequency	Hz	50 / 60		
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)		
Insulation Resistance	MΩ	500MΩ at the 500VDC		
Leakage Current	mA	≤22.6mA at the 250VAC		
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−1]		
Operating Humidity	RH	35 ~ 85%RH		
Weight	kg	2.8		

※ Derating Curve of page 519

Circuit Diagram



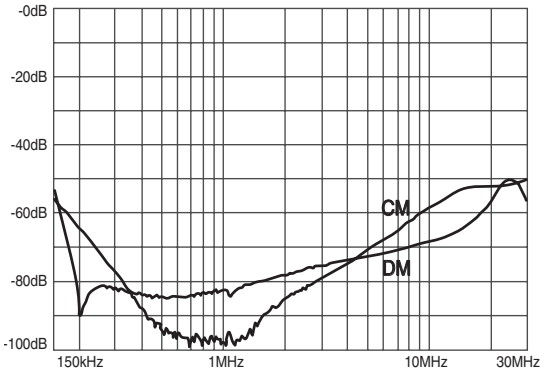
Terminal



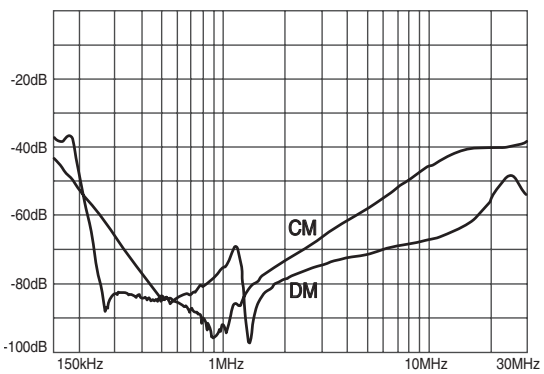
Max 14 , Min 6

Characteristics

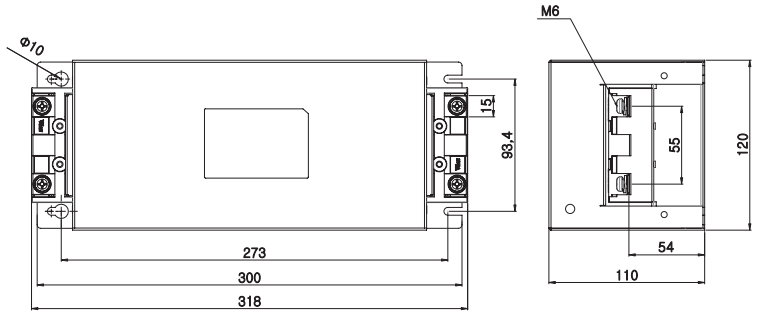
WYFS60T2M



WYFS100T2M



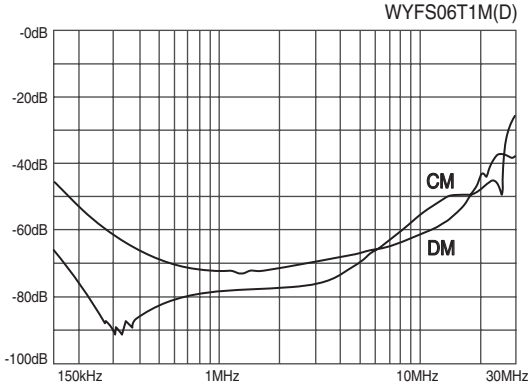
Dimension



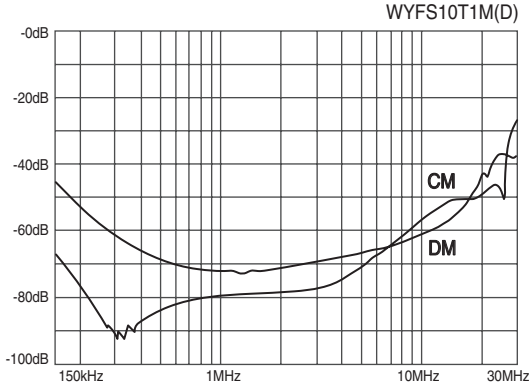
1Ø 250V 고감쇄형 Characteristics

● Characteristics

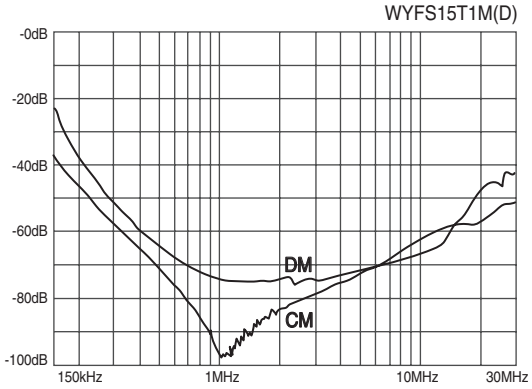
WYFS06T1M(D)



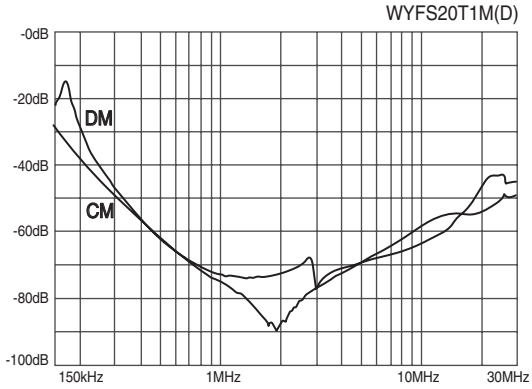
WYFS10T1M(D)



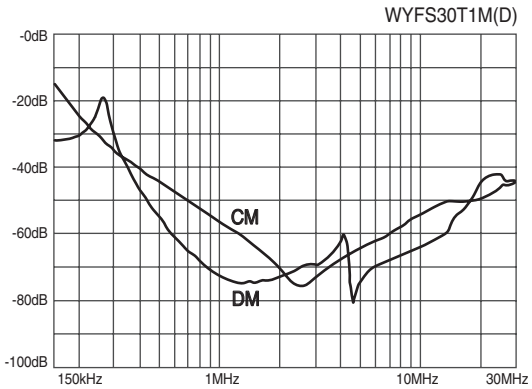
WYFS15T1M(D)



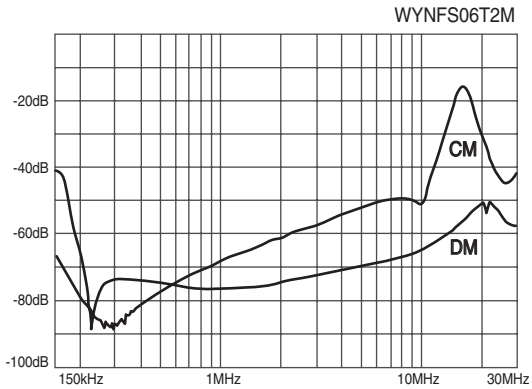
WYFS20T1M(D)



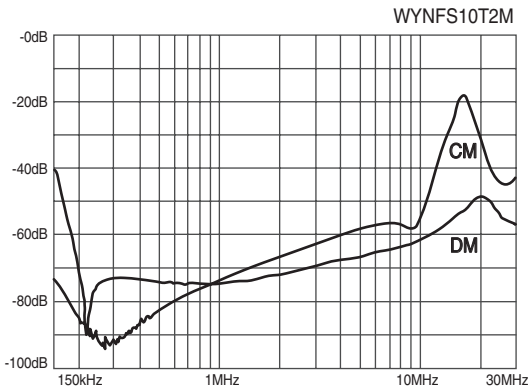
WYFS30T1M(D)



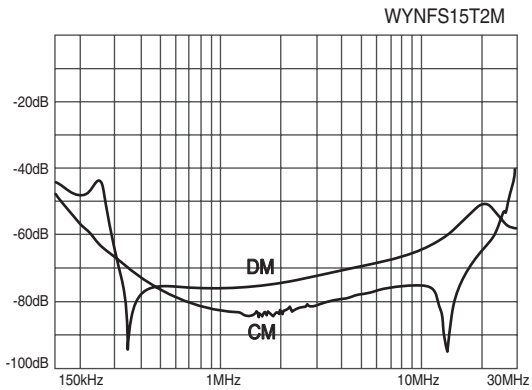
WYNFS06T2M



WYNFS10T2M



WYNFS15T2M



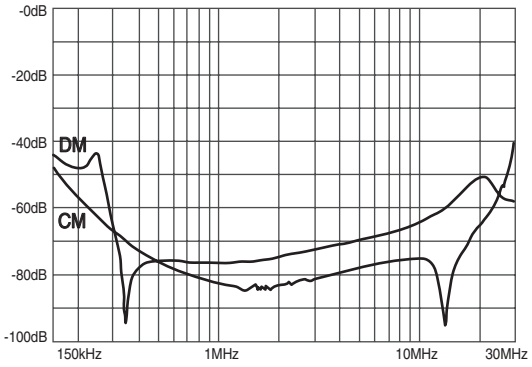
※CM : Common mode, DM : Differential mode

N Series 1Ø 250V 고감쇄형 Characteristics

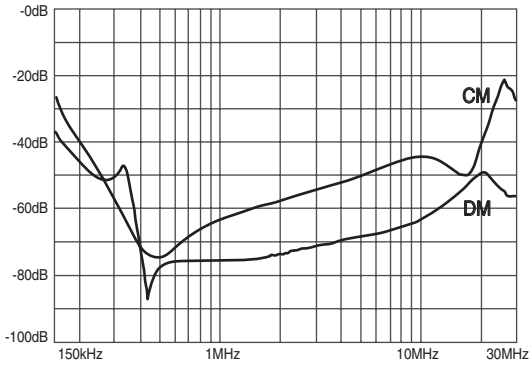
RoHS

● Characteristics

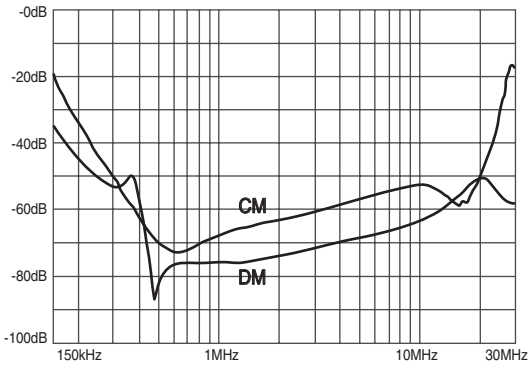
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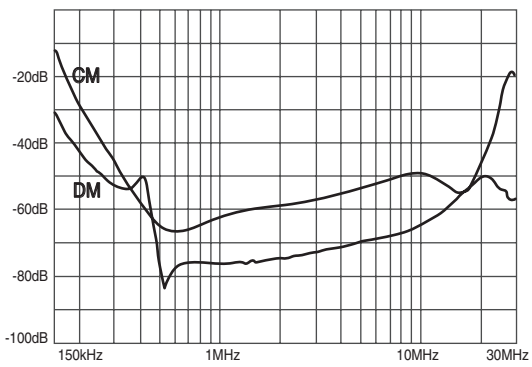
WYNFS30T2M



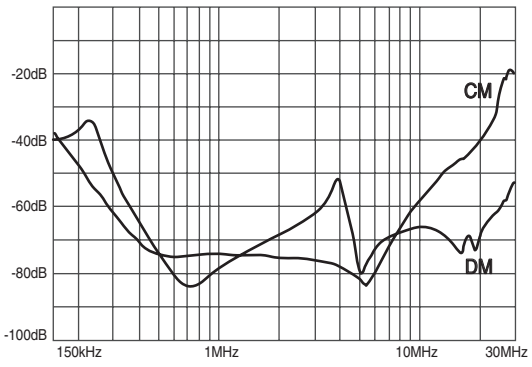
WYNFS40T2M



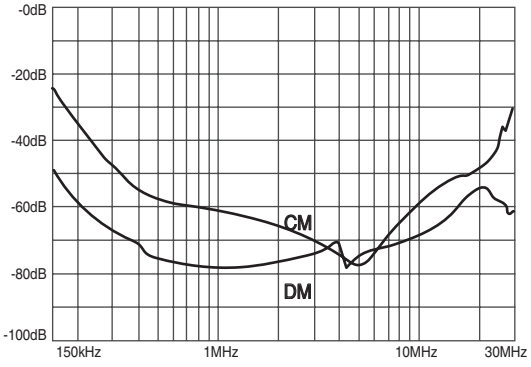
WYNFS50T2M



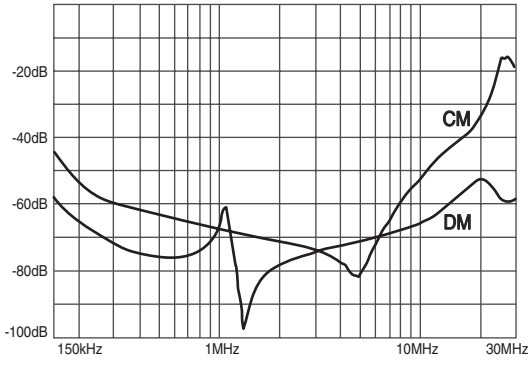
WYNFS60T2M



WYNFS80T2M



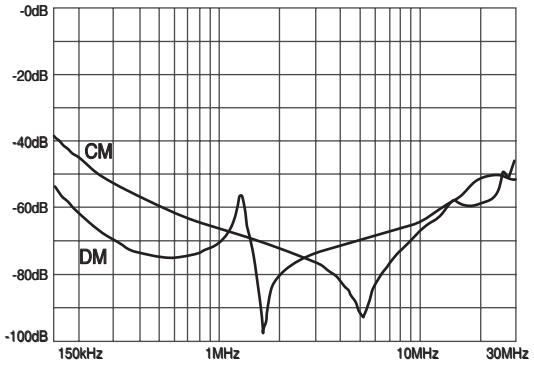
WYNFS100T2M



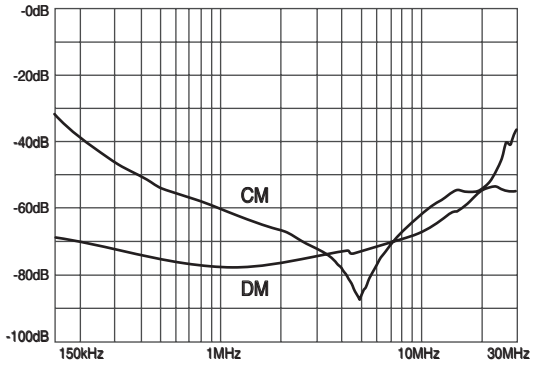
※CM : Common mode, DM : Differential mode

Characteristics

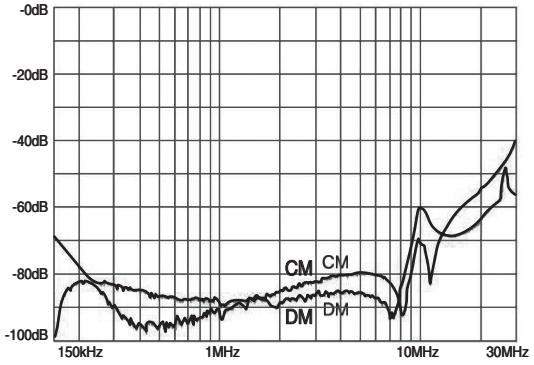
WYNFS120T2M



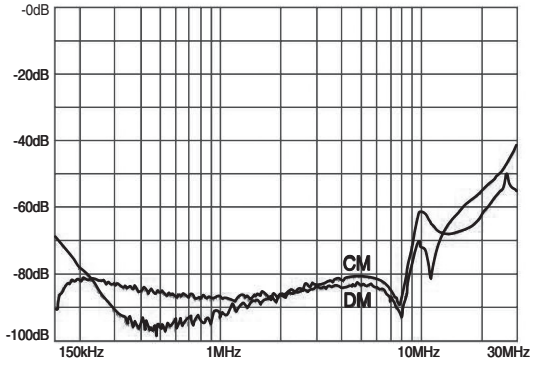
WYNFS150T2M



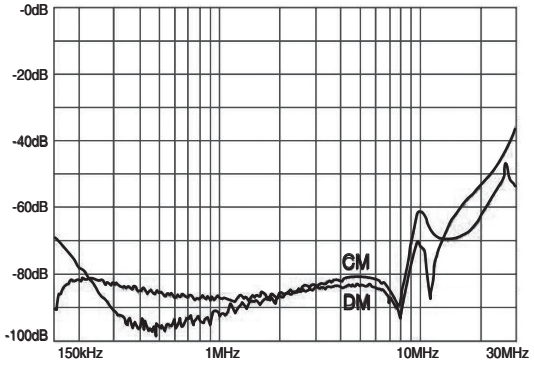
WYFS06T2M



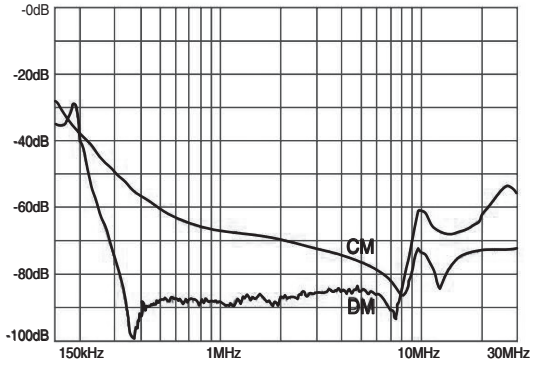
WYFS10T2M



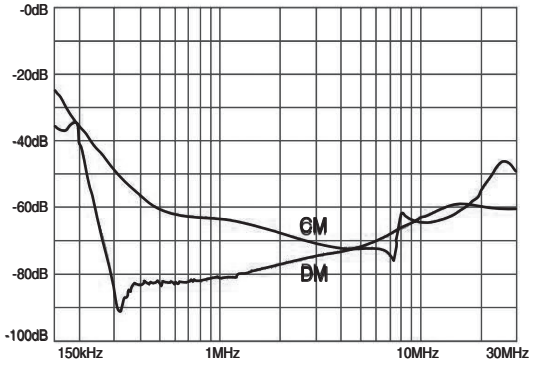
WYFS15T2M



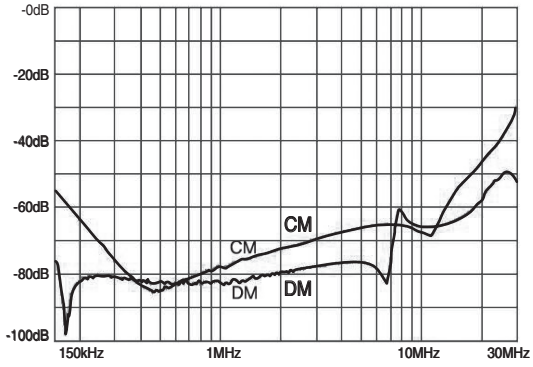
WYFS20T2M



WYFS30T2M



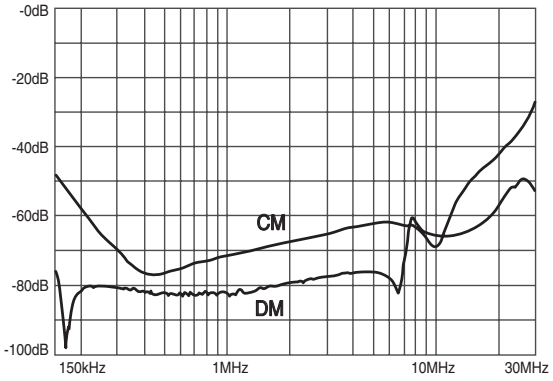
WYFS40T2M



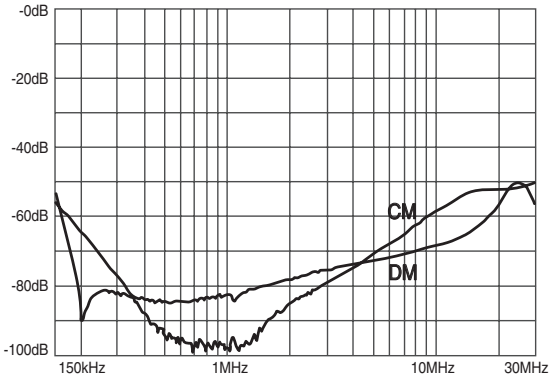
※CM : Common mode, DM : Differential mode

Characteristics

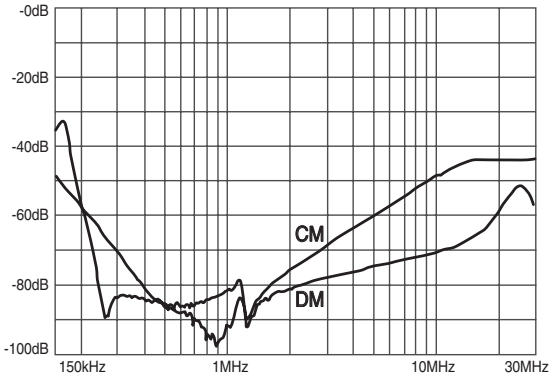
WYFS50T2M



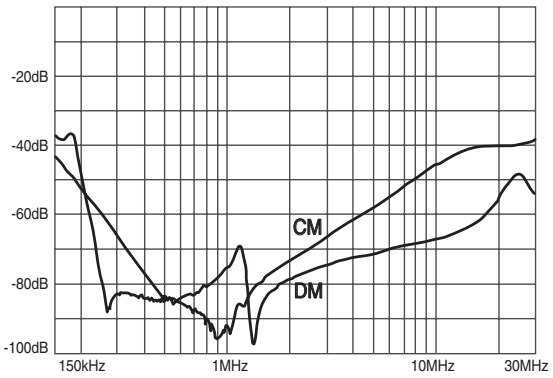
WYFS60T2M



WYFS80T2M



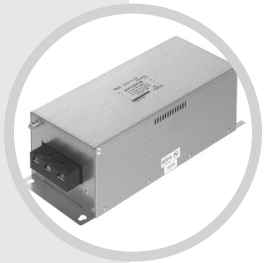
WYFS100T2M

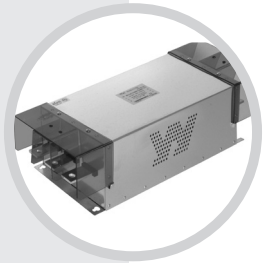


노이즈필터
Noise Filter

3Ø 고감쇄형(Multi－Stage Type)







- 3Ø 250V 5 ~ 1200A
- 3Ø 500V 5 ~ 1200A

N Series 3Ø 250V 고감쇄형 Multi-Stage Type

RoHS

UL 인증



Features

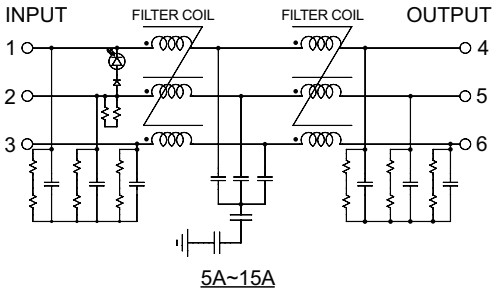
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYNFT05T2C)
- KC(안전인증) : Approved by HK03001-23019B
- UL Cer. No : E521164

Specifications

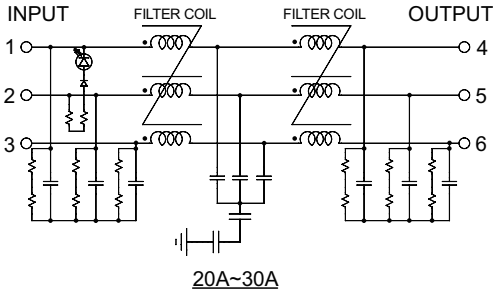
ITEM \ MODEL	SYMBOL	WYNFT05T2M	WYNFT10T2M	WYNFT15T2M	WYNFT20T2M	WYNFT30T2M
Rated Voltage	V	250Vac				
Rated Current	A	5A	10A	15A	20A	30A
Frequency	Hz	50 / 60				
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)				
Insulation Resistance	MΩ	DC 100MΩ at the 500Vdc				
Leakage Current	mA	≤2.5mA at the 250Vac				
Operating Temperature	°C	-25°C ~ +100°C [Refer to Derating Curve TYPE-2]				
Operating Humidity	RH	35 ~ 85%RH				
Weight	kg	1.2		2.2		

※ Derating Curve of page 519

Circuit Diagram

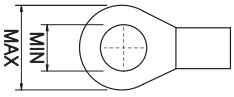


5A~15A



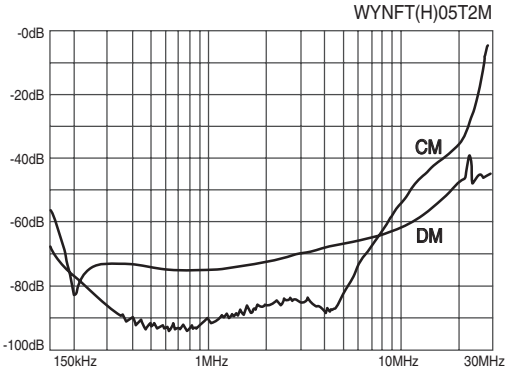
20A~30A

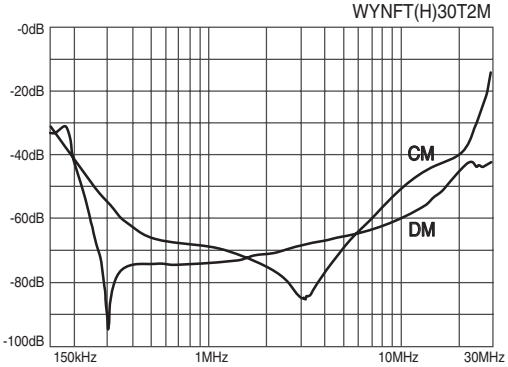
Terminal



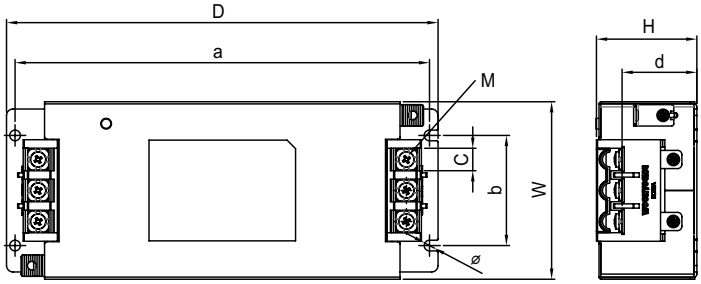
Max 10, Min 4 (5~15A)
Max 12, Min 5 (20~30A)

Characteristics





Dimension



MODEL	W	H	D	a	b	c	d	M	Ø
WYNFT5 ~15T2M	83	47	202	194	51.5	10.5	35	4	5
WYNFT20 ~ 30T2M	95	50.3	242	232	60	13	35.5	5	5

N Series 3Ø 250V 고감쇄형 Multi-Stage Type

UL 인증



Features

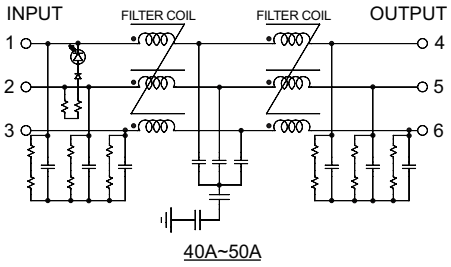
- Wide Band : High Attenuation
- Band Width : 150kHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYNFT40T2C)
- KC(안전인증) : Approved by HK03001-23019B
- UL Cer. No : E521164

Specifications

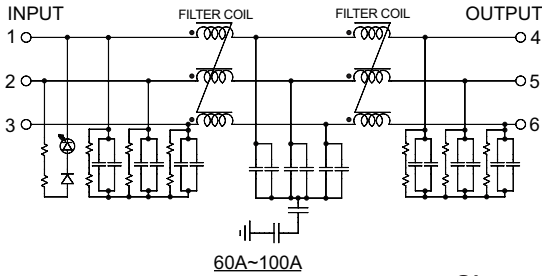
ITEM \ MODEL	SYMBOL	WYNFT 40T2M	WYNFT 50T2M	WYNFT 60T2M	WYNFT 80T2M	WYNFT 100T2M	WYNFT 120T2M	WYNFT 150T2M	WYFNT 200T2M	WYNFT 250T2M
Rated Voltage	V	250								
Rated Current	A	40A	50A	60A	80A	100A	120A	150A	200A	250A
Frequency	Hz	50 / 60								
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)								
Insulation Resistance	MΩ	DC 100MΩ at the 500Vdc								
Leakage Current	mA	≤2.5mA at the 250Vac					≤16mA at the 250Vac			
Operating Temperature	°C	-25°C ~ +100°C [Refer to Derating Curve TYPE-2]								
Operating Humidity	RH	35 ~ 85%RH								
Weight	kg	2.2		3.5			4.5			

※ Derating Curve of page 519

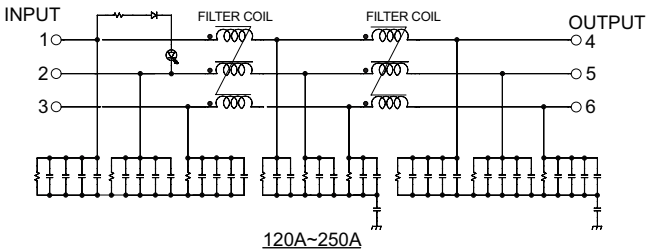
Circuit Diagram



40A~50A

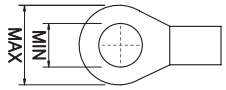


60A~100A



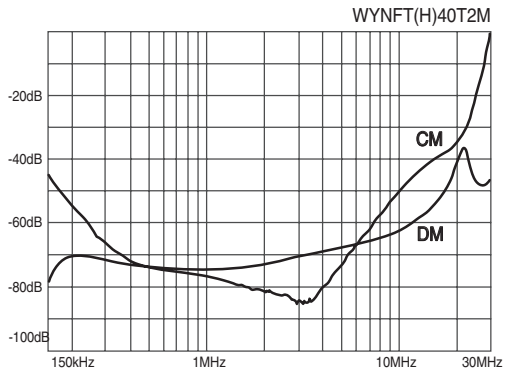
120A~250A

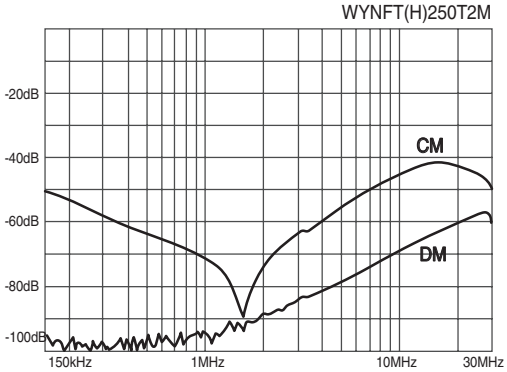
Terminal



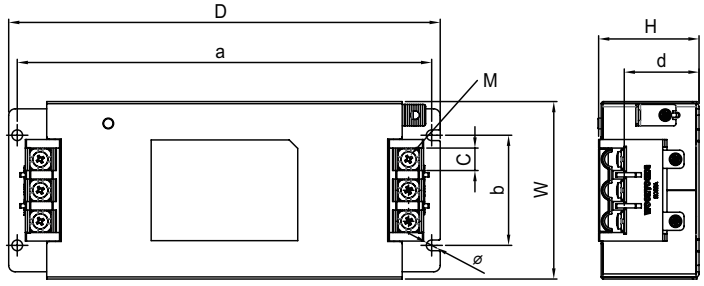
Max 16, Min 6 (40~50A)
Max 23, Min 8 (60~100A)
Max 28, Min 8 (120~250A)

Characteristics





Dimension



MODEL	W	H	D	a	b	c	d	M	Ø
WYNFT40 ~50T2M	109	61.2	295	284.5	74	17	46	6	5
WYNFT60 ~ 100T2M	137	76.9	380	368	96	24	59.7	8	5
WYNFT120 ~ 250T2M	171.6	151.6	445.4	416	140	28.5	120.1	8	6.5

3Ø 250V 고감쇄형 Multi-Stage Type

RoHS



Features

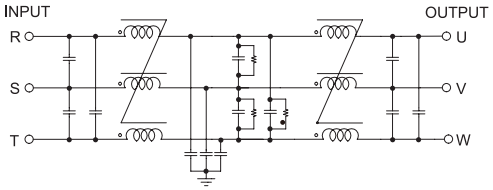
- High Attenuation
- High Voltage Pulse Noise
- 2 Stage Filter
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFT05T2C)

Specifications

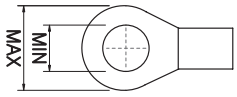
ITEM \ MODEL	SYMBOL	WYFT05T2M	WYFT10T2M	WYFT15T2M	WYFT20T2M	WYFT30T2M
Rated Voltage	V	250				
Rated Current	A	5	10	15	20	30
Frequency	Hz	50 / 60				
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)				
Insulation Resistance	MΩ	500				
Leakage Current	mA	27				
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−2]				
Operating Humidity	RH	35 ~ 85%RH				
Weight	kg	1.2		1.7		

※ Derating Curve of page 519

Circuit Diagram

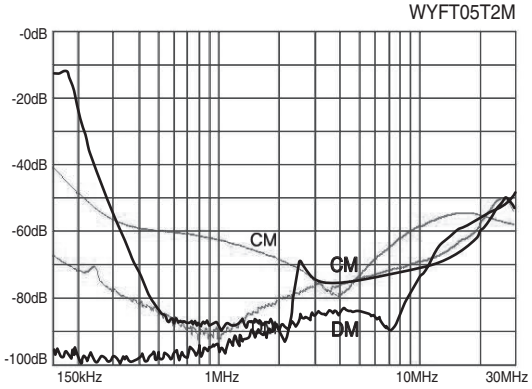


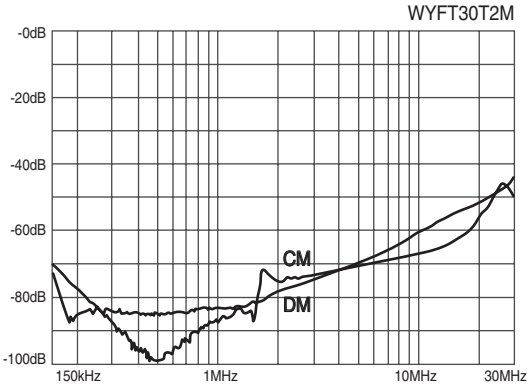
Terminal



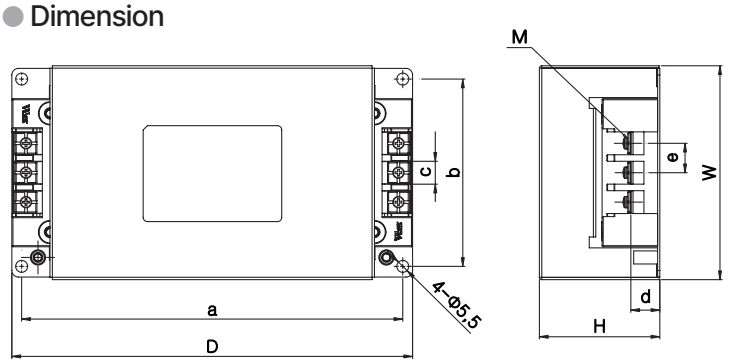
Max 10 , Min 4

Characteristics





Dimension



MODEL	W	H	D	a	b	c	d	e
WYFT050 ~ 15T2M	98	55	184	175	86	10.5	13	13.5
WYFT20 ~ 30T2M	116	75	234	219	98	10.5	14	13.5

3Ø 250V 고감쇄형 Multi-Stage Type

RoHS



Features

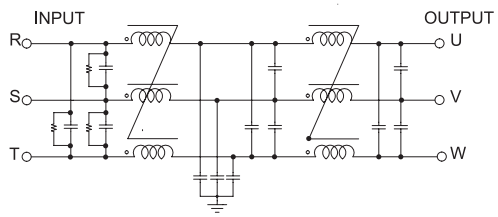
- High Attenuation
- High Voltage Pulse Noise
- 2 Stage Filter
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFT40T2C)
- KC(안전인증) : Approved by HK03001－23019B

Specifications

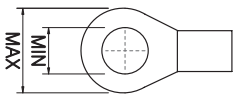
ITEM \ MODEL	SYMBOL	WYF T40T2M	WYF T50T2M	WYF T60T2M	WYF T80T2M	WYF T100T2M	WYF T120T2M	WYF T150T2M	WYF T200T2M	WYF T250T2M
Rated Voltage	V	250								
Rated Current	A	40	50	60	80	100	120	150	200	250
Frequency	Hz	50 / 60								
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)								
Insulation Resistance	MΩ	500								
Leakage Current	mA	27								
Operating Temperature	℃	－25℃ ～ ＋100℃ [Refer to Derating Curve TYPE－2]								
Operating Humidity	RH	35 ～ 85%RH								
Weight	kg	3.5		7.0		10.5				12.0

※ Derating Curve of page 519

Circuit Diagram

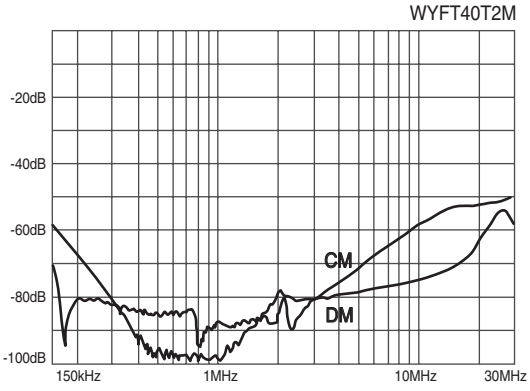


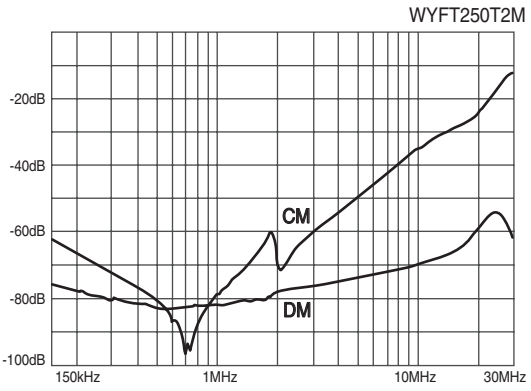
Terminal



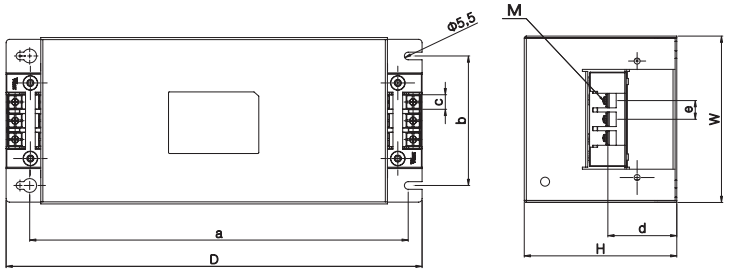
Max 10 , Min 4(40~50A)
Max 14 , Min 6(60~100A)
Max 22 , Min 8(120~150A)
Max 24 , Min 8(200~250A)

Characteristics





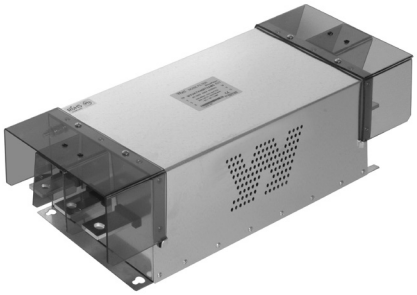
Dimension



MODEL	W	H	D	a	b	c	d	e	M
WYFT40 ~ 50T2M	124	110	306	273	93	10.5	50	13.5	M4
WYFT60 ~ 100T2M	140	130	410	373	113	15	60	27.5	M6
WYFT120 ~ 150T2M	170	163	458	417	143	23	71	35	M8
WYFT200 ~ 250T2M	170	163	467	417	143	25	76	38.5	M8

3Ø 250V 고감쇄형 Multi-Stage Type

RoHS



Features

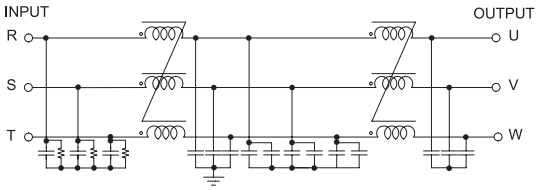
- High Attenuation
- High Voltage Pulse Noise
- 2 Stage Filter
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFT300T2C)

Specifications

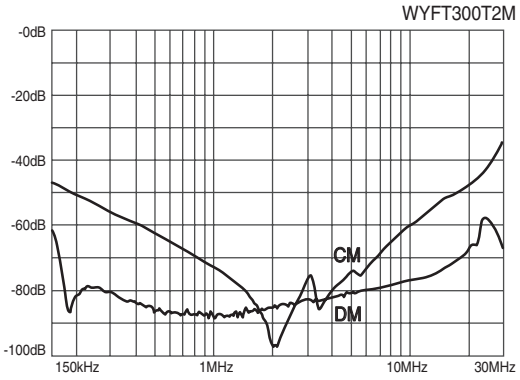
ITEM \ MODEL	SYMBOL	WYFT300T2M	WYFT400T2M
Rated Voltage	V	250	
Rated Current	A	300	400
Frequency	Hz	50 / 60	
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)	
Insulation Resistance	MΩ	500	
Leakage Current	mA	27	
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−2]	
Operating Humidity	RH	35 ~ 85%RH	
Weight	kg	12.5	15.5

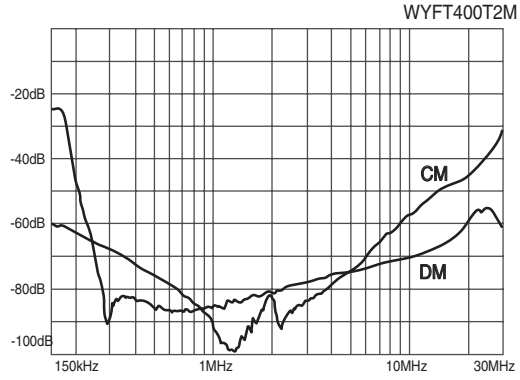
※ Derating Curve of page 519

Circuit Diagram

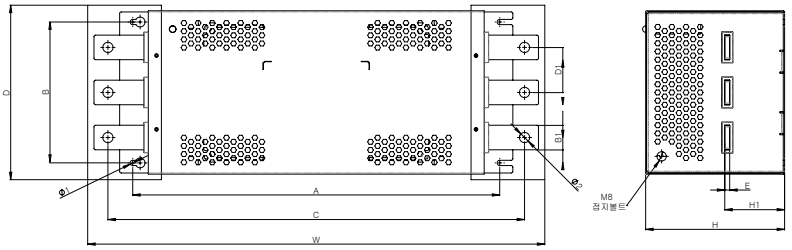


Characteristics





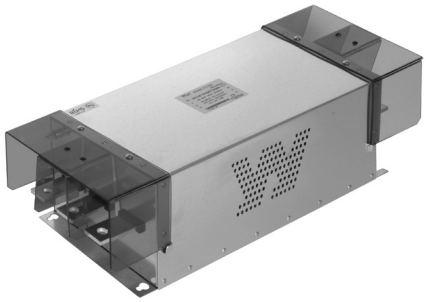
Dimension



MODEL	W	H	D	A	B	C	B1	D1	H1	E	Ø1	Ø2
300A	528	173	206	448	172	466	30	55	67	6	6.4	12.5
400A	570	173	206	448	172	508	30	55	67	6	6.4	12.5

3Ø 250V 고감쇄형 Multi-Stage Type

RoHS



Features

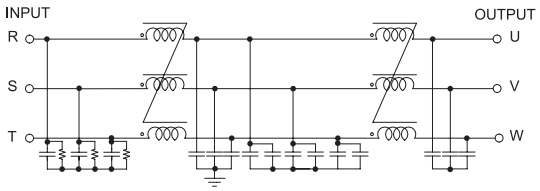
- High Attenuation
- High Voltage Pulse Noise
- 2 Stage Filter
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFT500T2C)

Specifications

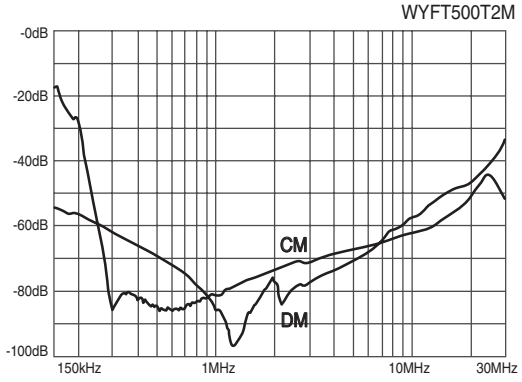
ITEM \ MODEL	SYMBOL	WYFT500T2M
Rated Voltage	V	250
Rated Current	A	500
Frequency	Hz	50 / 60
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)
Insulation Resistance	MΩ	300
Leakage Current	mA	27
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−2]
Operating Humidity	RH	35 ~ 85%RH
Weight	kg	16

※Derating Curve of page 519

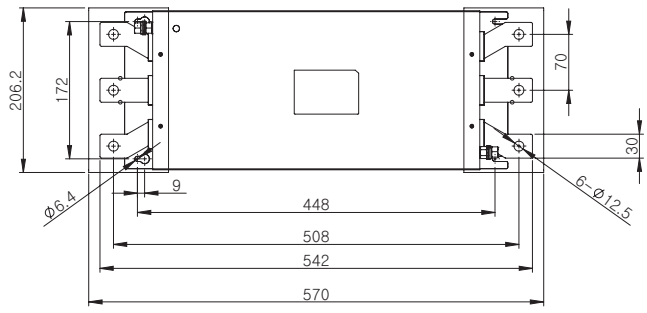
Circuit Diagram

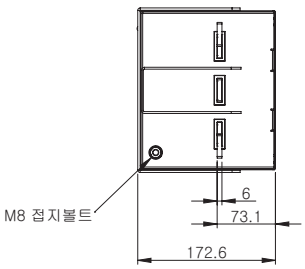


Characteristics



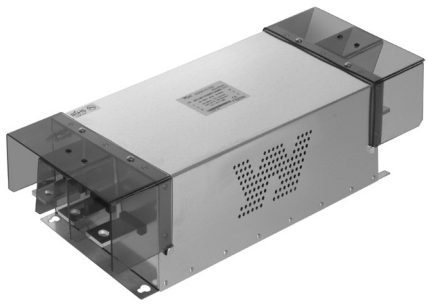
Dimension





3Ø 250V 고감쇄형 Multi-Stage Type

RoHS



Features

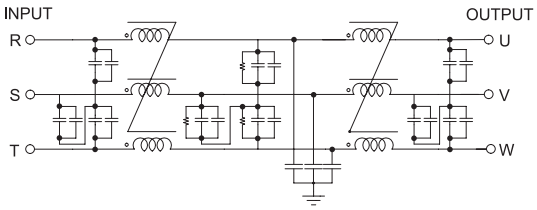
- High Attenuation
- High Voltage Pulse Noise
- 2 Stage Filter
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFT600T2C)

Specifications

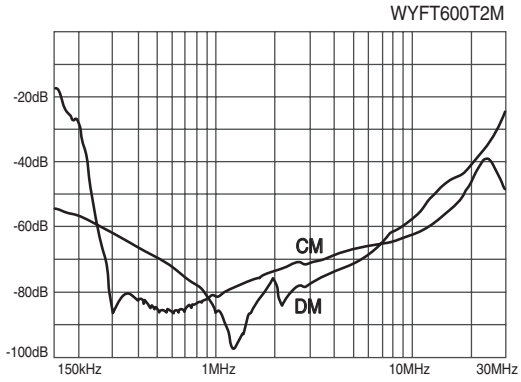
ITEM \ MODEL	SYMBOL	WYFT600T2M	WYFT800T2M	WYFT1000T2M	WYFT1200T2M
Rated Voltage	V	250			
Rated Current	A	600	800	1000	1200
Frequency	Hz	50 / 60			
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)			
Insulation Resistance	MΩ	500			
Leakage Current	mA	27			
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−2]			
Operating Humidity	RH	35 ~ 85%RH			
Weight	kg	23			

※ Derating Curve of page 519

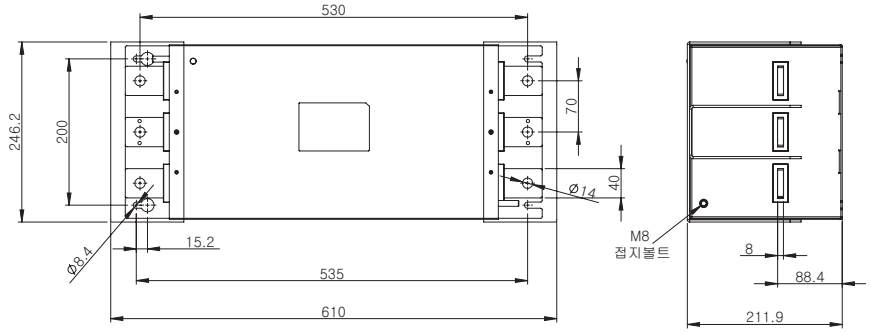
Circuit Diagram



Characteristics



Dimension



N Series 3Ø 500V 고감쇄형 Multi-Stage Type

RoHS

UL 인증



Features

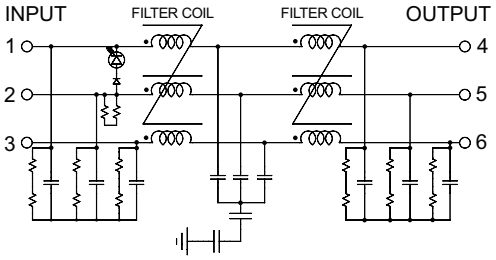
- Wide Band : High Attenuation
- Band Width : 150KHz~30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYNFTH05T2C)
- KC(안전인증) : Approved by HK03001－23022B
- UL Cer. No : E521164

Specifications

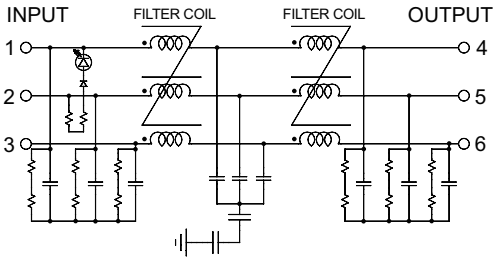
ITEM \ MODEL	SYMBOL	WYNFTH05T2M	WYNFTH10T2M	WYNFTH15T2M	WYNFTH20T2M	WYNFTH30T2M
Rated Voltage	V	500Vac				
Rated Current	A	5A	10A	15A	20A	30A
Frequency	Hz	50 / 60				
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)				
Insulation Resistance	MΩ	DC 100MΩ at the 500Vdc				
Leakage Current	mA	≤5mA at the 500Vac				
Operating Temperature	℃	－25℃ ～ +100℃ [Refer to Derating Curve TYPE－2]				
Operating Humidity	RH	35 ～ 85%RH				
Weight	kg	1.2		2.2		

※ Derating Curve of page 519

Circuit Diagram

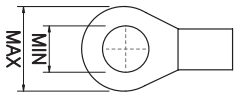


5A~15A



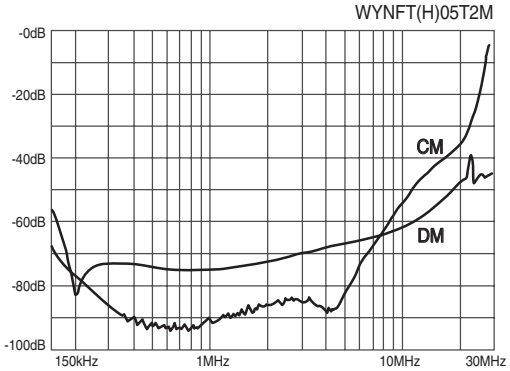
20A~30A

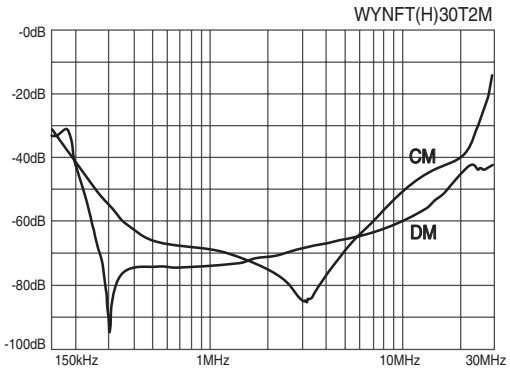
Terminal



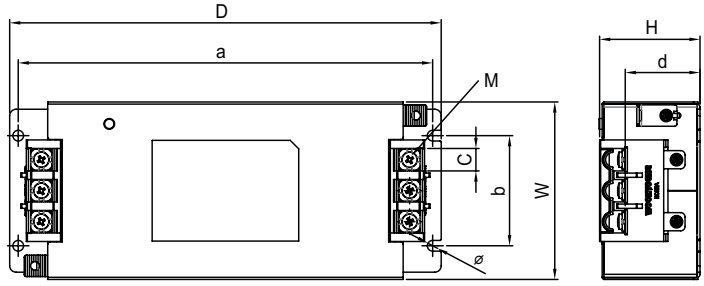
Max 10, Min 4 (5~15A)
Max 12, Min 5 (20~30A)

Characteristics





Dimension



MODEL	W	H	D	a	b	c	d	M	Ø
WYNFTH5 ~ 15T2M	83	47	202	194	51.5	10.5	35	4	5
WYNFTH20 ~ 30T2M	95	50.3	242	232	60	13	35.5	5	5

N Series 3Ø 500V 고감쇄형 Multi-Stage Type

RoHS

UL 인증



Features

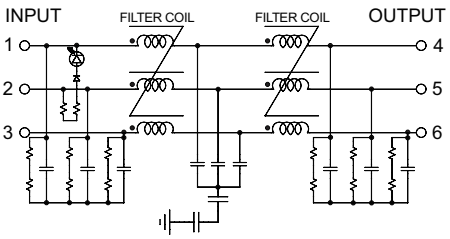
- Wide Band : High Attenuation
- Band Width : 150kHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYNFTH40T2C)
- KC(안전인증) : Approved by HK03001-23022B
- UL Cer. No : E521164

Specifications

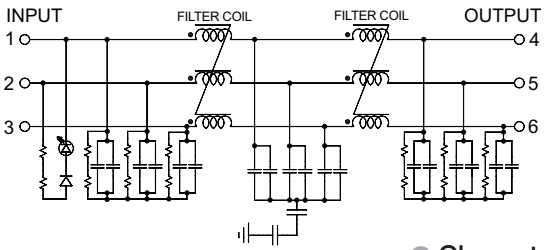
ITEM \ MODEL	SYMBOL	WYNF TH40T2M	WYNF TH50T2M	WYNF TH60T2M	WYNF TH80T2M	WYNF TH100T2M	WYNF TH120T2M	WYNF TH150T2M	WYNF TH200T2M	WYNF TH250T2M
Rated Voltage	V	500Vac								
Rated Current	A	40A	50A	60A	80A	100A	120A	150A	200A	250A
Frequency	Hz	50 / 60								
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)								
Insulation Resistance	MΩ	DC 100MΩ at the 500Vdc								
Leakage Current	mA	≤5mA at the 500Vac					≤26mA at the 500Vac			
Operating Temperature	°C	-25°C ~ +100°C [Refer to Derating Curve TYPE-2]								
Operating Humidity	RH	35 ~ 85%RH								
Weight	kg	2.2		3.5			4.5			

※ Derating Curve of page 519

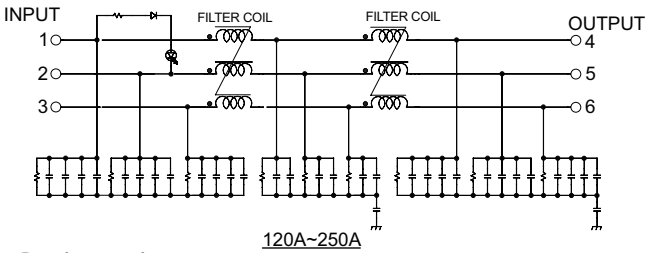
Circuit Diagram



40A~50A

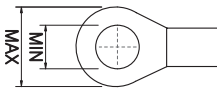


60A~100A



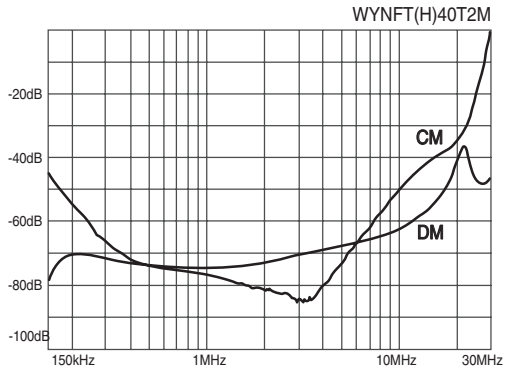
120A~250A

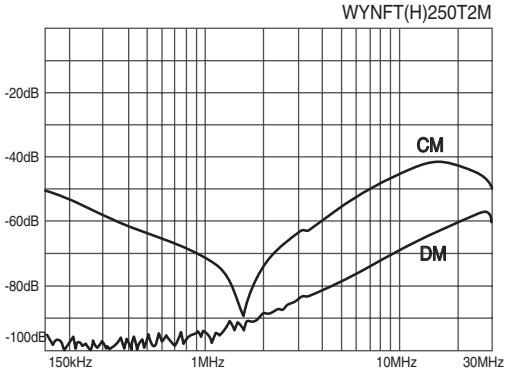
Terminal



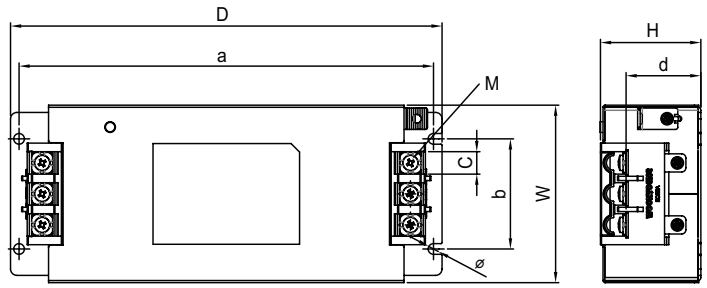
Max 16, Min 6 (40~50A)
Max 23, Min 8 (60~100A)
Max 28, Min 8 (120~250A)

Characteristics





Dimension



MODEL	W	H	D	a	b	c	d	M	Ø
WYNFTH40 ~ 50T2M	109	61.2	295	284.5	74	17	46	6	5
WYNFTH60 ~ 100T2M	137	76.9	380	368	96	24	59.7	8	5
WYNFTH120 ~ 250T2M	171.6	151.6	445.4	416	140	28.5	120.1	8	6.5

3Ø 500V 고감쇄형 Multi-Stage Type

RoHS



Features

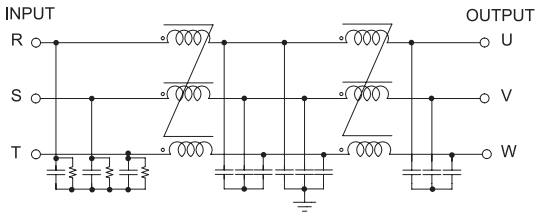
- High Attenuation
- High Voltage Pulse Noise
- 2 Stage Filter
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFTH05T2C)

Specifications

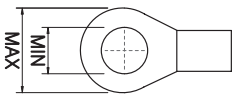
ITEM \ MODEL	SYMBOL	WYFTH05T2M	WYFTH10T2M	WYFTH15T2M	WYFTH20T2M	WYFTH30T2M
Rated Voltage	V	500				
Rated Current	A	5	10	15	20	30
Frequency	Hz	50 / 60				
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)				
Insulation Resistance	MΩ	500				
Leakage Current	mA	54				
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−2]				
Operating Humidity	RH	35 ~ 85%RH				
Weight	kg	0.8			1.7	

※ Derating Curve of page 519

Circuit Diagram

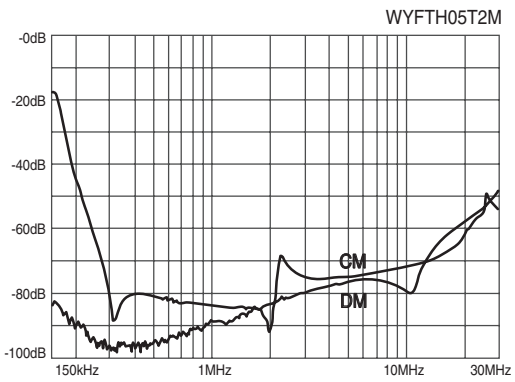


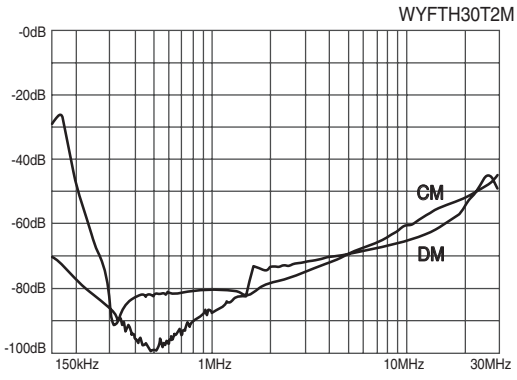
Terminal



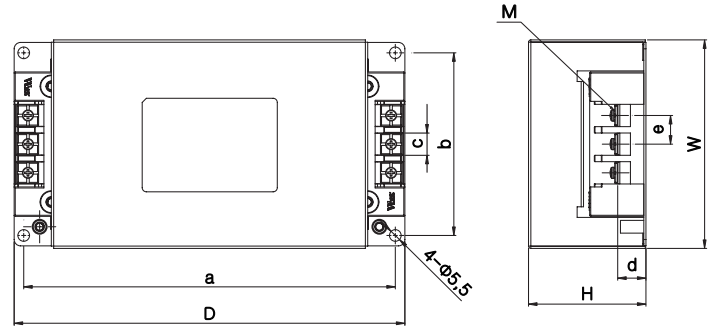
Max 10 , Min 4

Characteristics





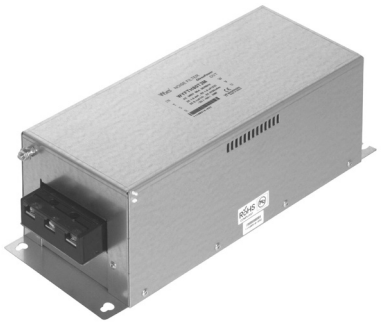
Dimension



MODEL	W	H	D	a	b	c	d	e
WYFT05 ~ 15T2M	98	55	184	175	86	10.5	13	13.5
WYFT20 ~ 30T2M	116	75	234	219	98	10.5	14	13.5

3Ø 500V 고감쇄형 Multi-Stage Type

RoHS



Features

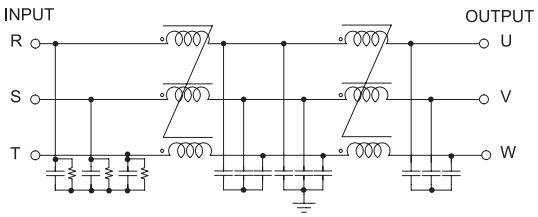
- High Attenuation
- High Voltage Pulse Noise
- 2 Stage Filter
- Band Width : 150KHz ~ 30MH
- RoHS Compliantz
- Inverter Output Type : Model Type"C" (WYFTH40T2C)

Specifications

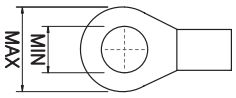
ITEM \ MODEL	SYMBOL	WYF TH40T2M	WYF TH50T2M	WYF TH60T2M	WYF TH80T2M	WYF TH100T2M	WYF TH120T2M	WYF TH150T2M	WYF TH200T2M	WYF TH250T2M
Rated Voltage	V	500								
Rated Current	A	40	50	60	80	100	120	150	200	250
Frequency	Hz	50 / 60								
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)								
Insulation Resistance	MΩ	500								
Leakage Current	mA	54								
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−2]								
Operating Humidity	RH	35 ~ 85%RH								
Weight	kg	3.5		7.0			10.5			12.0

※ Derating Curve of page 519

Circuit Diagram

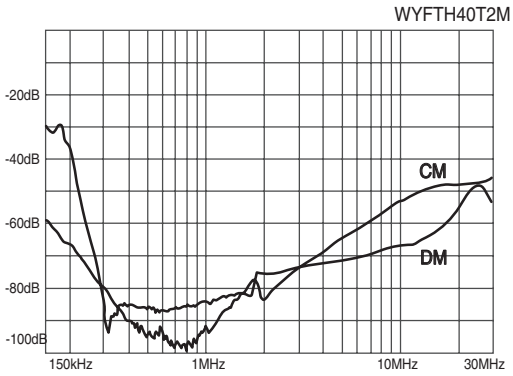


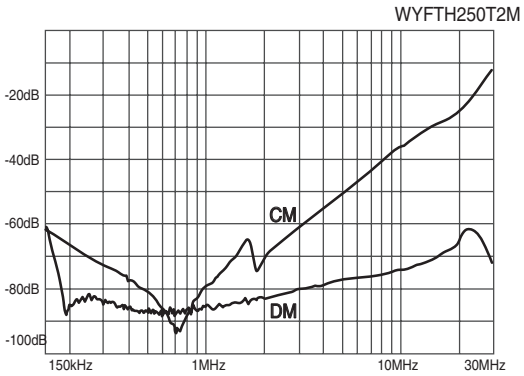
Terminal



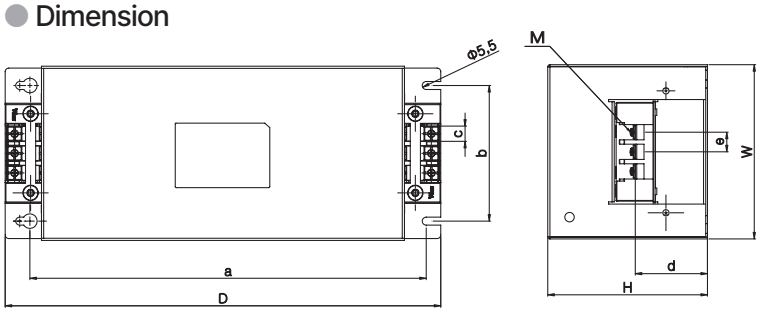
Max 10 , Min 4(40~50A)
Max 14 , Min 6(60~100A)
Max 22 , Min 8(120~150A)
Max 24 , Min 8(200~250A)

Characteristics

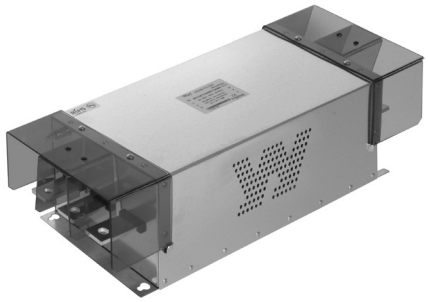




Dimension



MODEL	W	H	D	a	b	c	d	e	M
WYFT40 ~ 50T2M	124	110	300	273	93	10.5	50	13.5	M4
WYFT60 ~ 100T2M	140	130	400	373	113	15	60	27.5	M6
WYFT120 ~ 150T2M	170	163	444	417	143	23	71	35	M8
WYFT200 ~ 250T2M	170	163	444	417	143	25	76	38.5	M8



Features

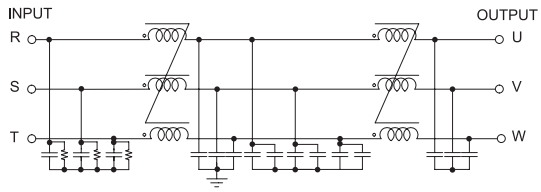
- High Attenuation
- High Voltage Pulse Noise
- 2 Stage Filter
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFTH300T2C)

Specifications

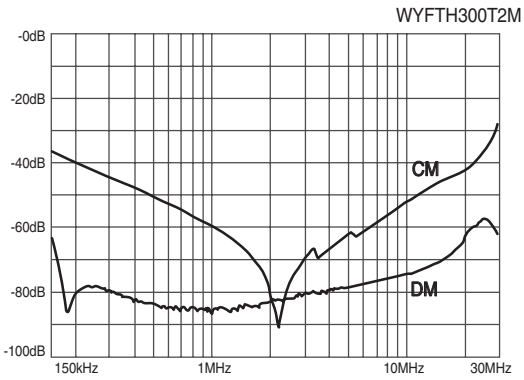
ITEM \ MODEL	SYMBOL	WYFTH300T2M	WYFTH400T2M
Rated Voltage	V	500	
Rated Current	A	300	400
Frequency	Hz	50 / 60	
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)	
Insulation Resistance	MΩ	500	
Leakage Current	mA	54	
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−2]	
Operating Humidity	RH	35 ~ 85%RH	
Weight	kg	12.5	15.5

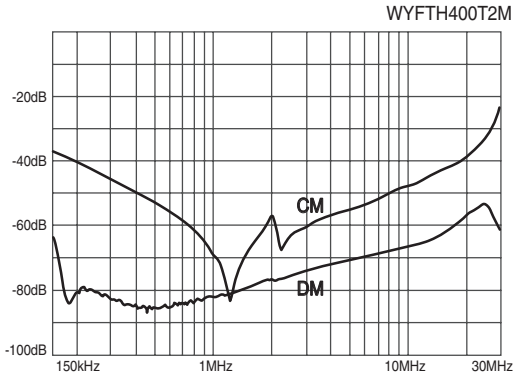
※ Derating Curve of page 519

Circuit Diagram

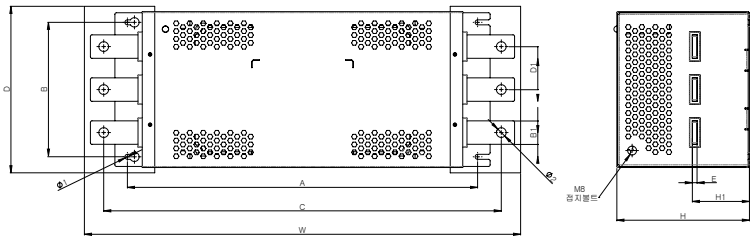


Characteristics





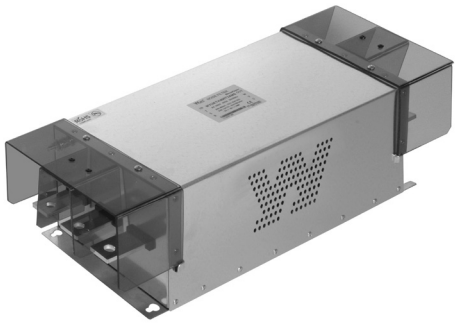
Dimension



MODEL	W	H	D	A	B	C	B1	D1	H1	E	Ø1	Ø2
300A	528	173	206	448	172	466	30	55	67	6	6.4	12.5
400A	570	173	206	448	172	508	30	55	67	6	6.4	12.5

3Ø 500V 고감쇄형 Multi-Stage Type

RoHS



Features

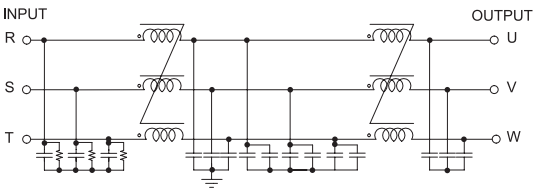
- High Attenuation
- High Voltage Pulse Noise
- 2 Stage Filter
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFTH500T2C)

Specifications

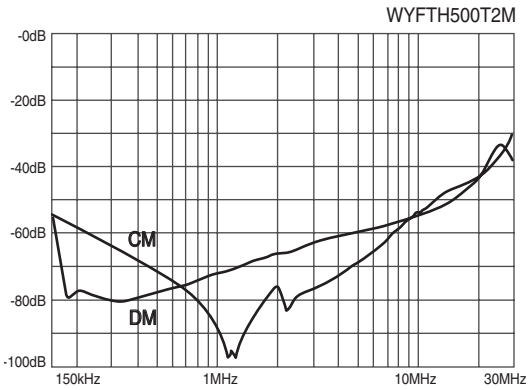
ITEM \ MODEL	SYMBOL	WYFTH500T2M
Rated Voltage	V	500
Rated Current	A	500
Frequency	Hz	50 / 60
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)
Insulation Resistance	MΩ	500
Leakage Current	mA	54
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−2]
Operating Humidity	RH	35 ~ 85%RH
Weight	kg	16

※ Derating Curve of page 519

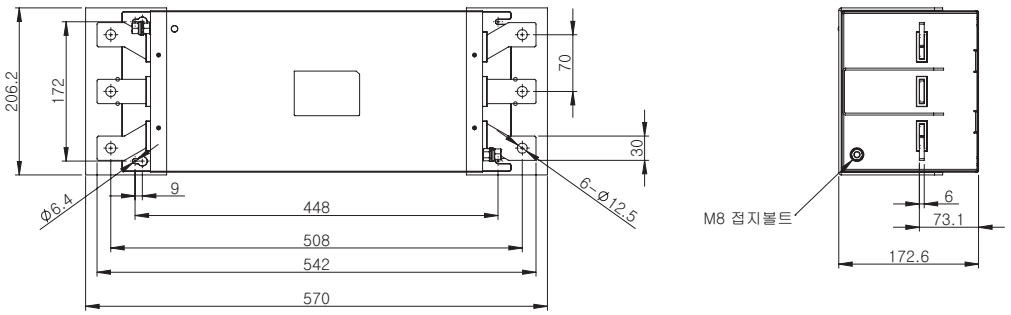
Circuit Diagram



Characteristics

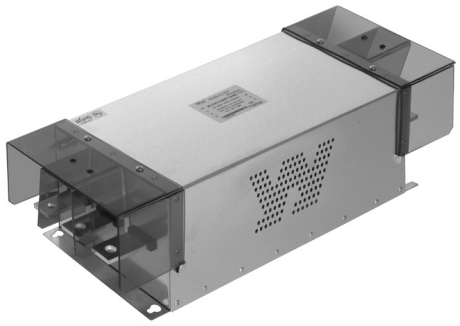


Dimension



3Ø 500V 고감쇄형 Multi-Stage Type

RoHS



Features

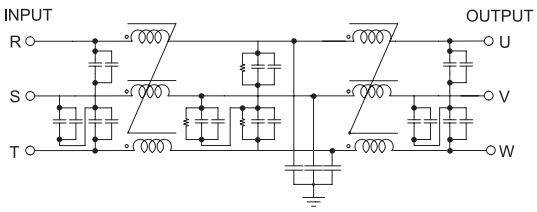
- High Attenuation
- High Voltage Pulse Noise
- 2 Stage Filter
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFTH600T2C)

Specifications

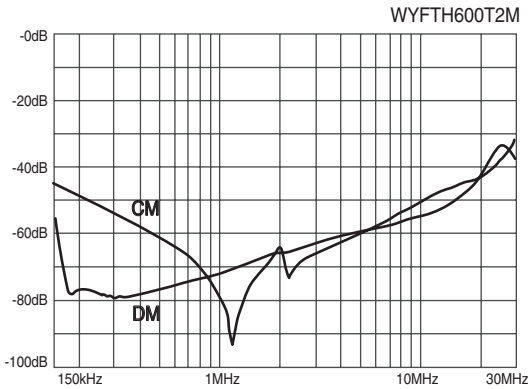
ITEM \ MODEL	SYMBOL	WYFTH600T2M	WYFTH800T2M	WYFTH1000T2M	WYFTH1200T2M
Rated Voltage	V	500			
Rated Current	A	600	800	1000	1200
Frequency	Hz	50 / 60			
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)			
Insulation Resistance	MΩ	500			
Leakage Current	mA	54			
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−2]			
Operating Humidity	RH	35 ~ 85%RH			
Weight	kg	23			

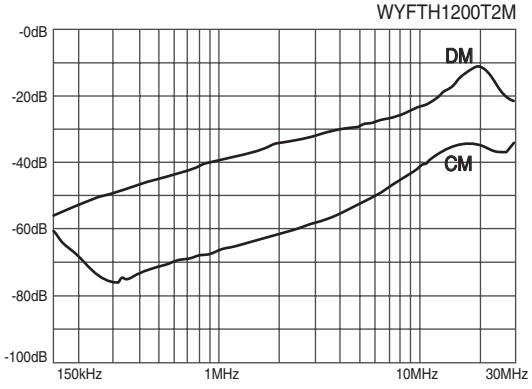
※ Derating Curve of page 519

Circuit Diagram

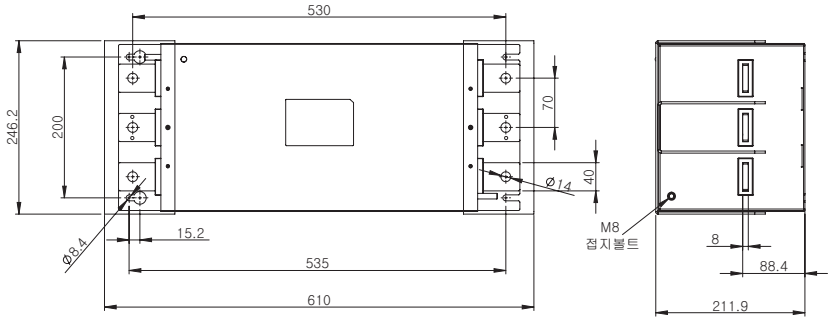


Characteristics





Dimension

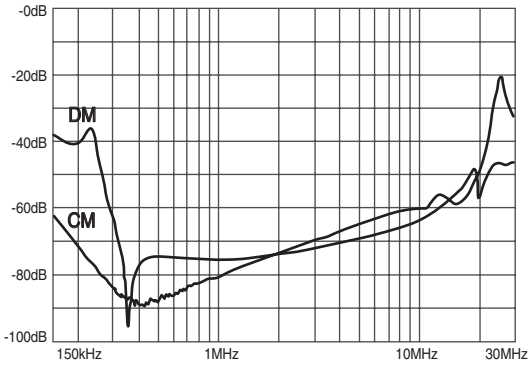


3Ø 250~500V 고감쇄형 Characteristics

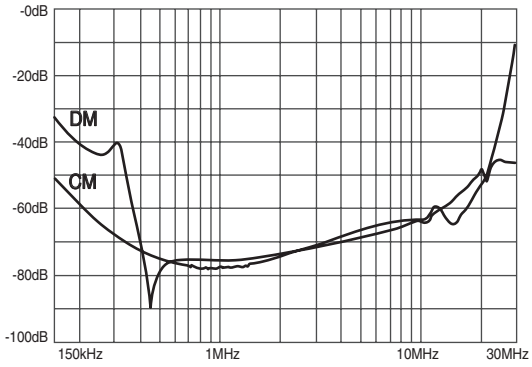
RoHS

Characteristics

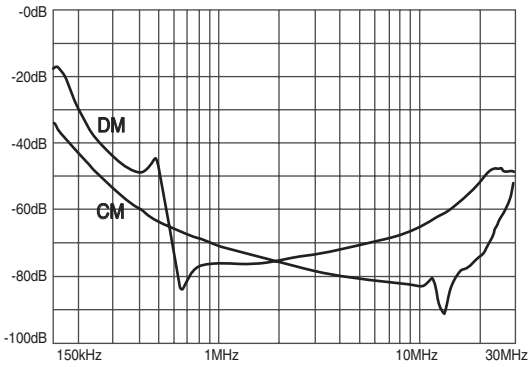
WYNFT05T2M



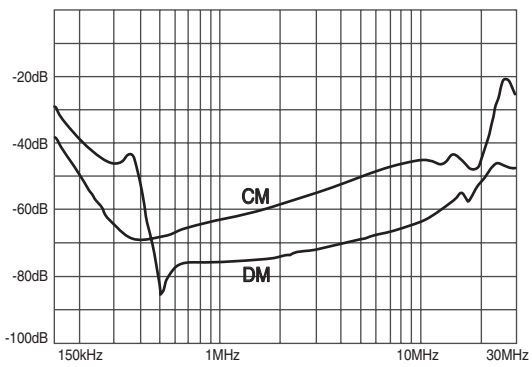
WYNFT10T2M



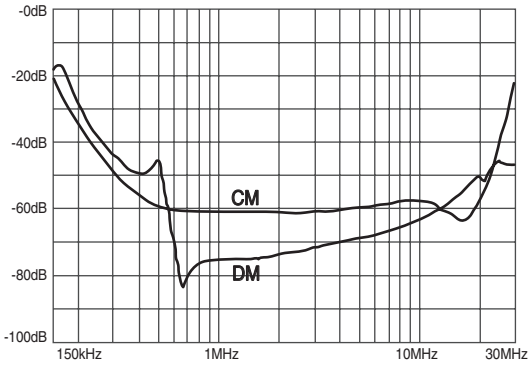
WYNFT15T2M



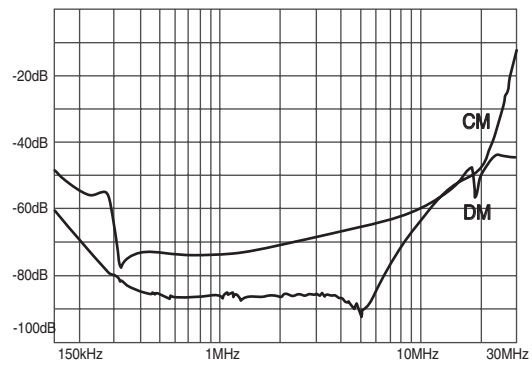
WYNFT20T2M



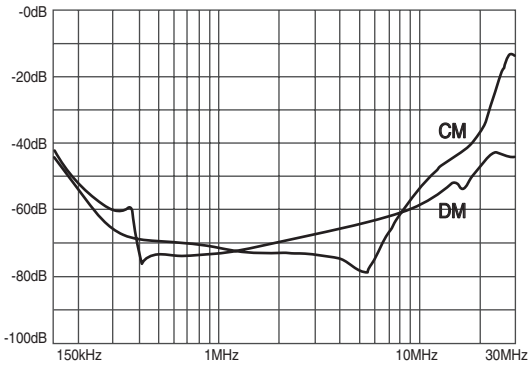
WYNFT30T2M



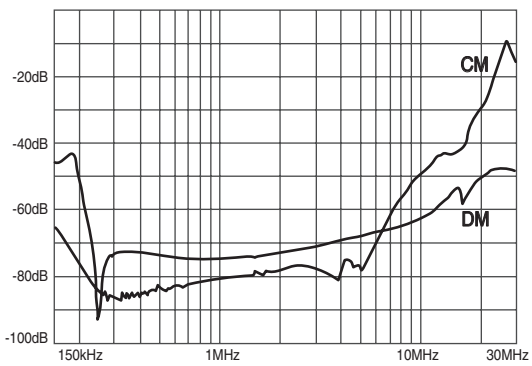
WYNFT40T2M



WYNFT50T2M



WYNFT60T2M



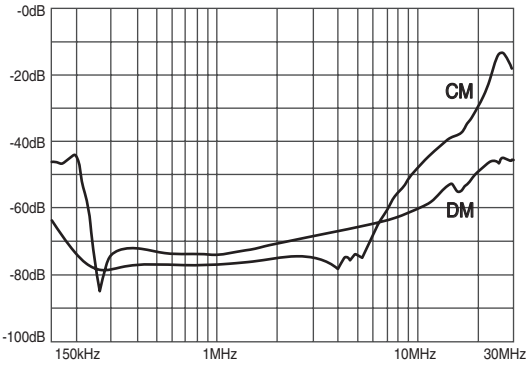
※CM : Common mode, DM : Differential mode

3Ø 250~500V 고감쇄형 Characteristics

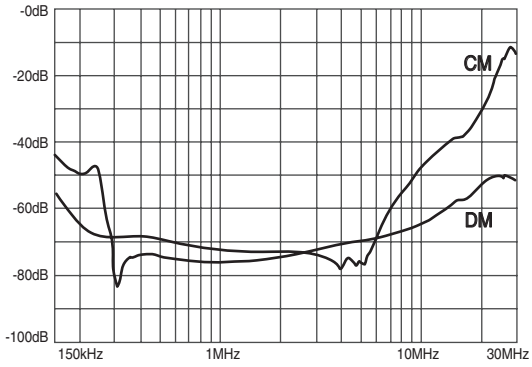
RoHS

Characteristics

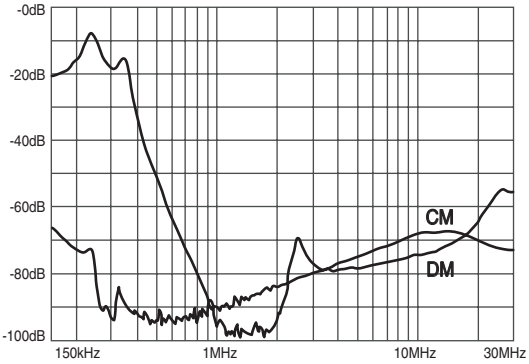
WYNFT80T2M



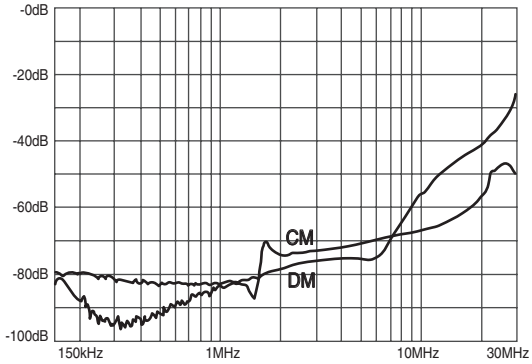
WYNFT100T2M



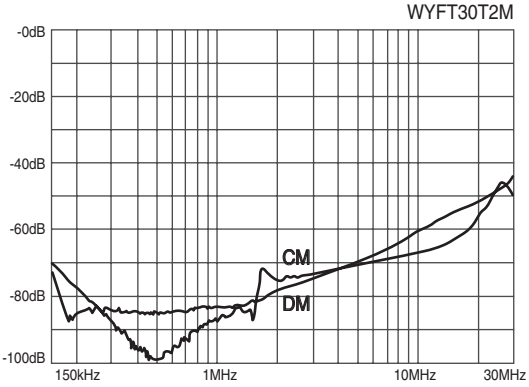
WYFT15T2M



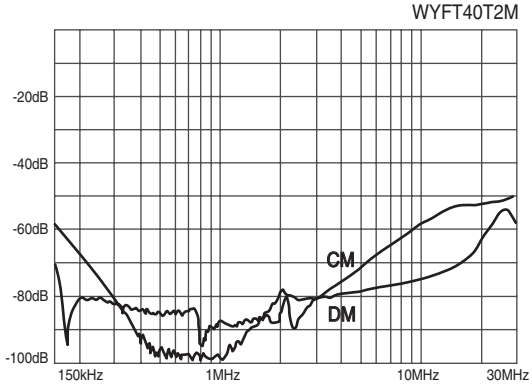
WYFT20T2M



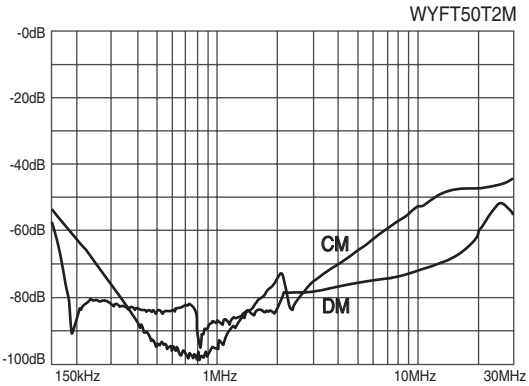
WYFT30T2M



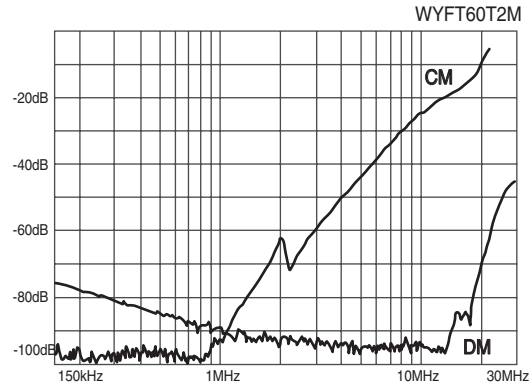
WYFT40T2M



WYFT50T2M

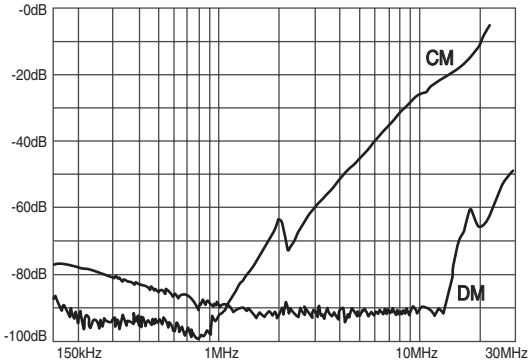


WYFT60T2M

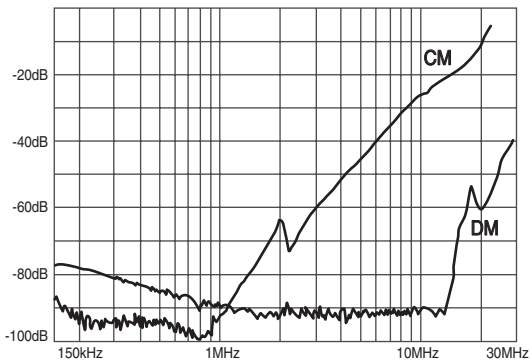


Characteristics

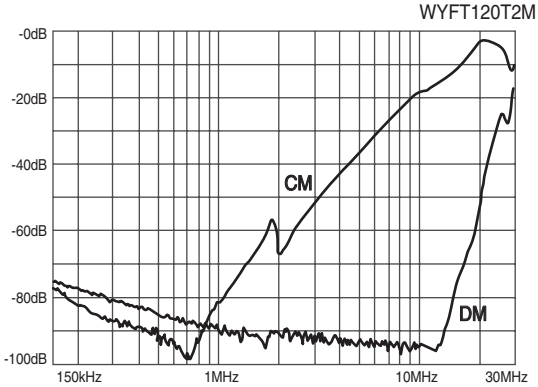
WYFT80T2M



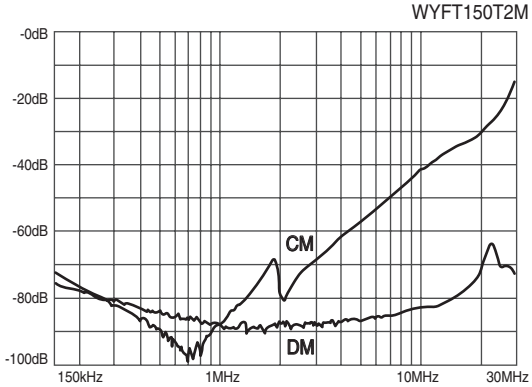
WYFT100T2M



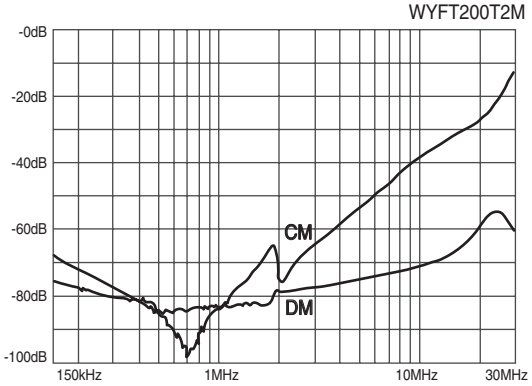
WYFT120T2M



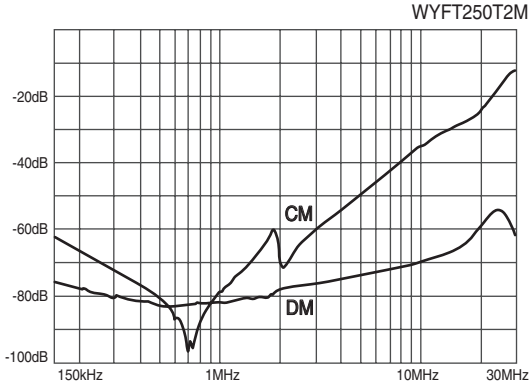
WYFT150T2M



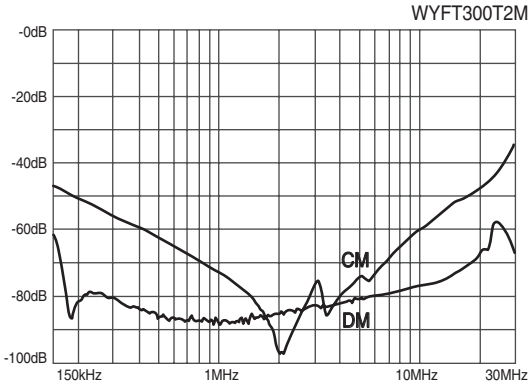
WYFT200T2M



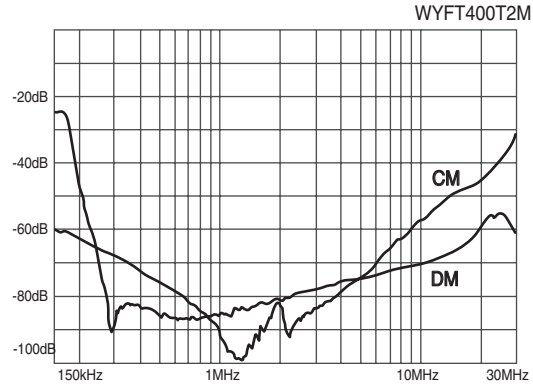
WYFT250T2M



WYFT300T2M



WYFT400T2M

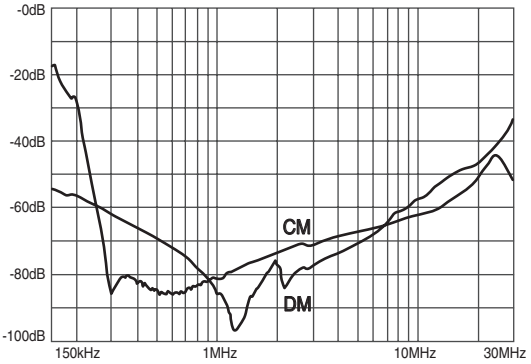


3Ø 250~500V 고감쇄형 Characteristics

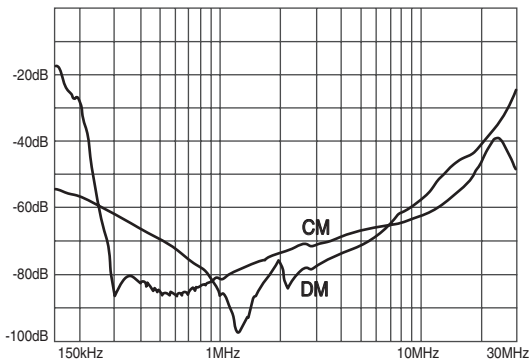
RoHS

Characteristics

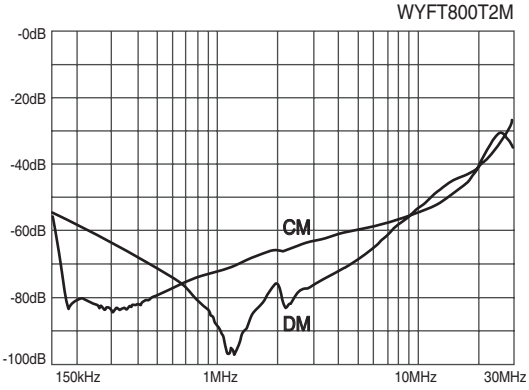
WYFT500T2M



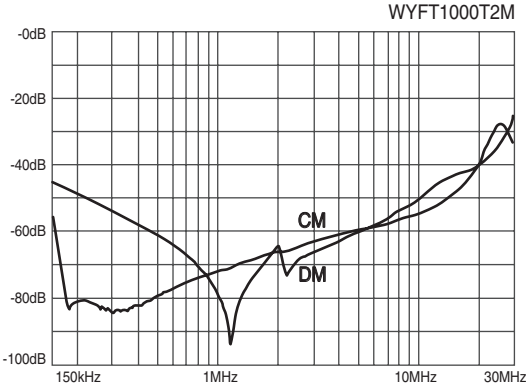
WYFT600T2M



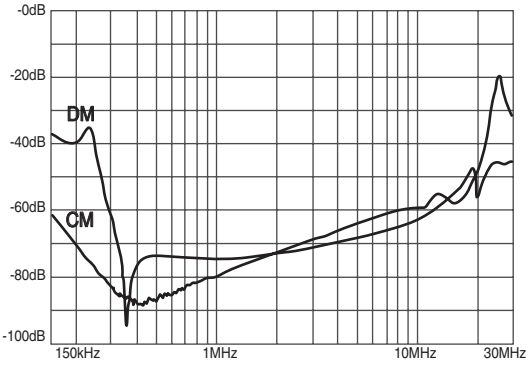
WYFT800T2M



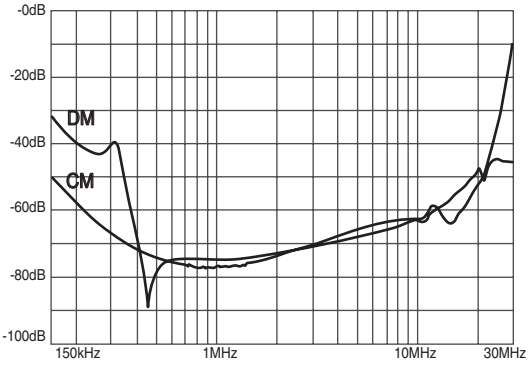
WYFT1000T2M



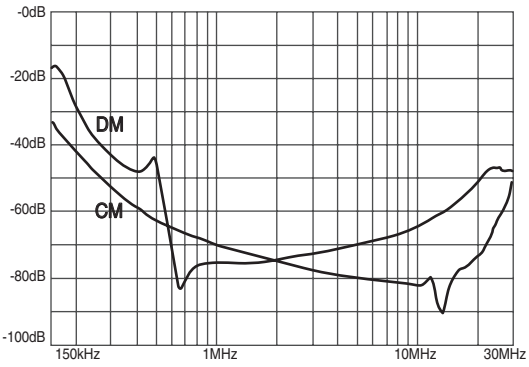
WYNFTH05T2M



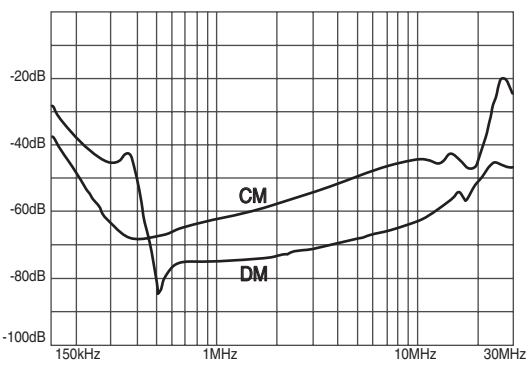
WYNFTH10T2M



WYNFTH15T2M

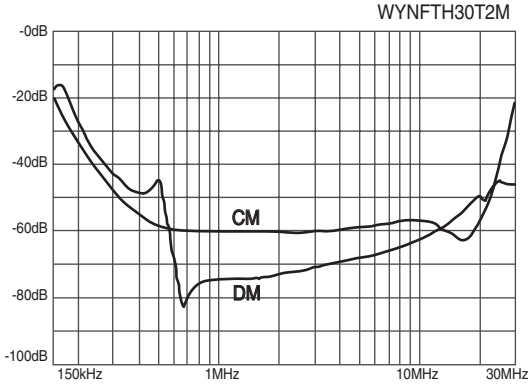


WYNFTH20T2M

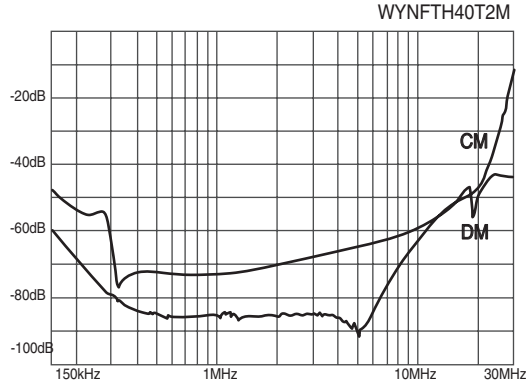


Characteristics

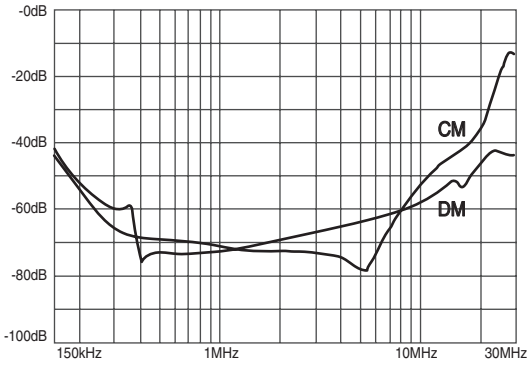
WYNFTH30T2M



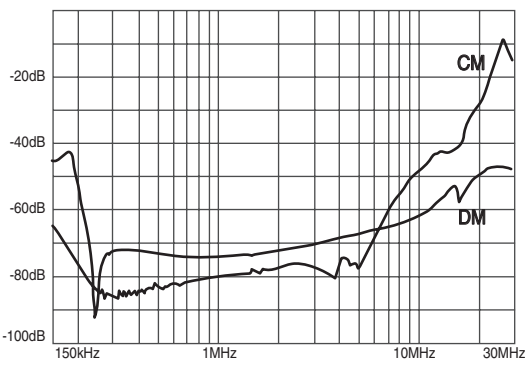
WYNFTH40T2M



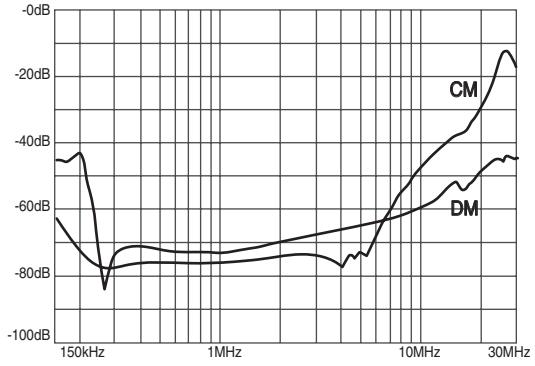
WYNFTH50T2M



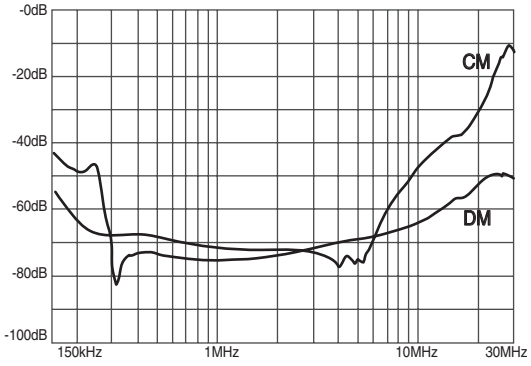
WYNFTH60T2M



WYNFTH80T2M



WYNFTH100T2M

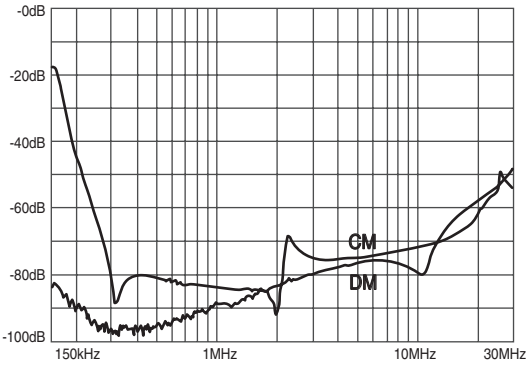


3Ø 250~500V 고감쇄형 Characteristics

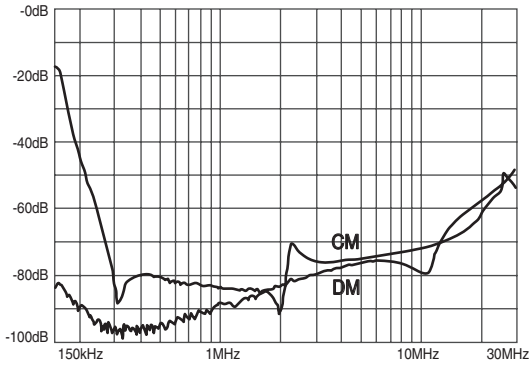
RoHS

Characteristics

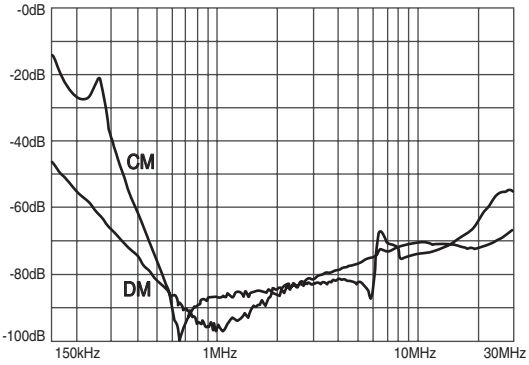
WYFTH05T2M



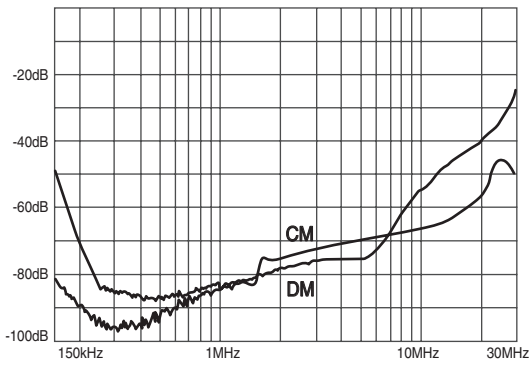
WYFTH10T2M



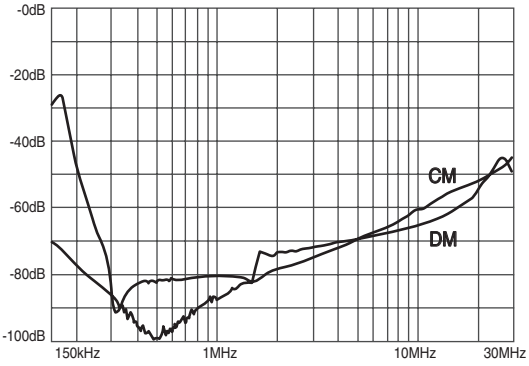
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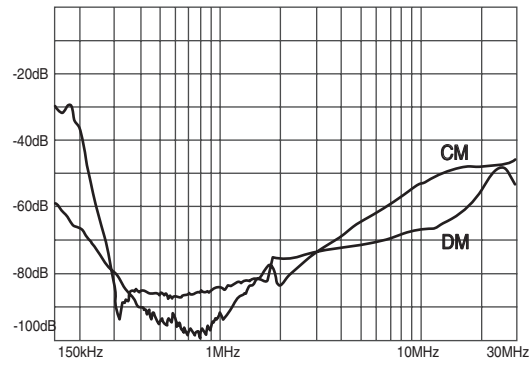
WYFTH20T2M



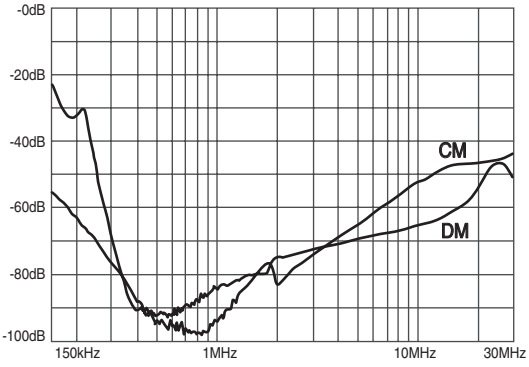
WYFTH30T2M



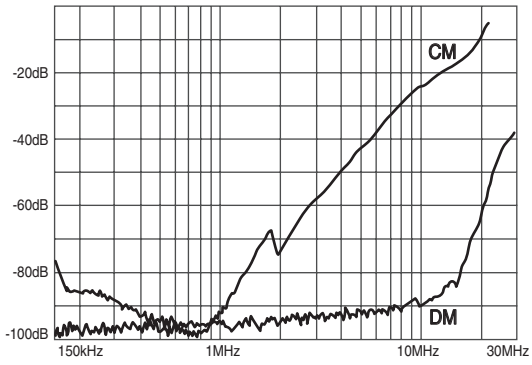
WYFTH40T2M



WYFTH50T2M



WYFTH60T2M



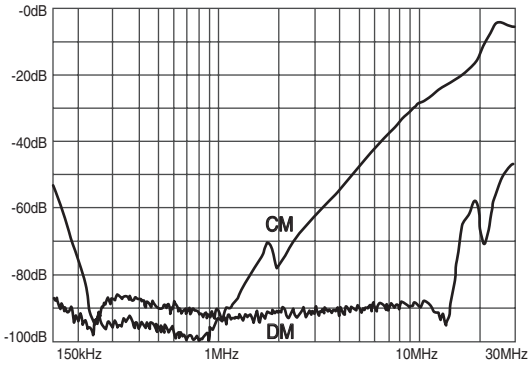
※CM : Common mode, DM : Differential mode

3Ø 250~500V 고감쇄형 Characteristics

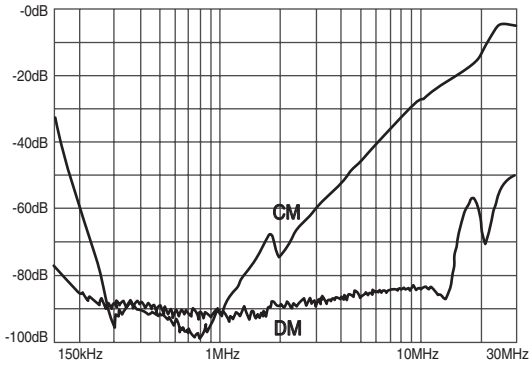
RoHS

Characteristics

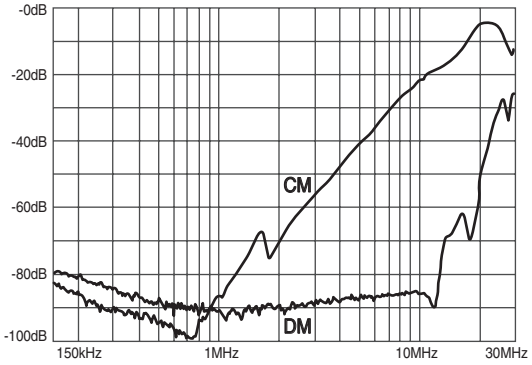
WYFTH80T2M



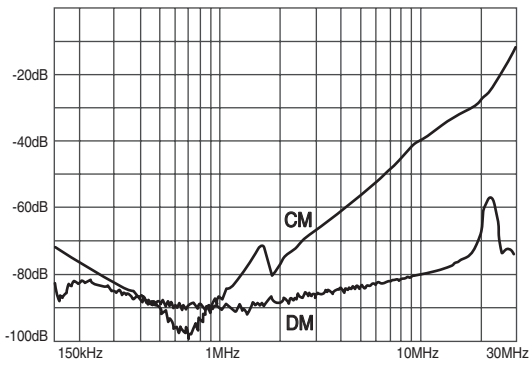
WYFTH100T2M



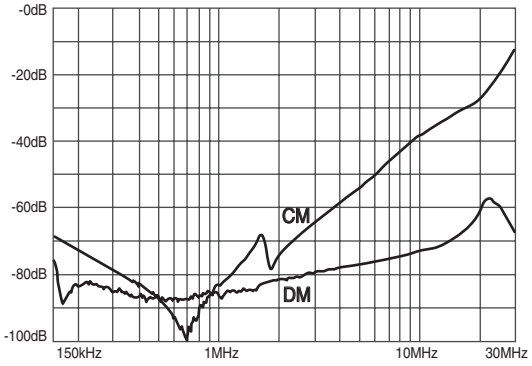
WYFTH120T2M



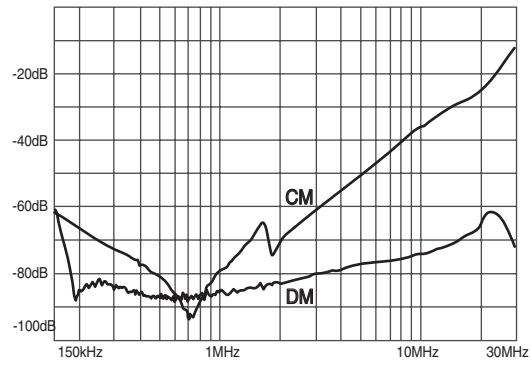
WYFTH150T2M



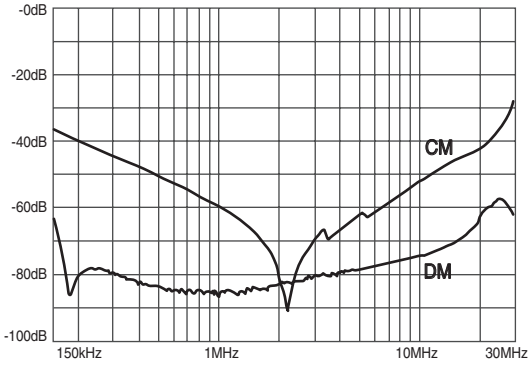
WYFTH200T2M



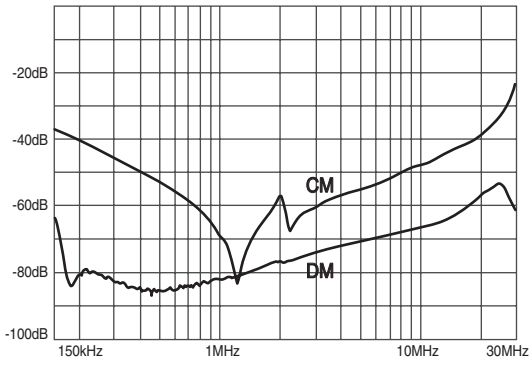
WYFTH250T2M



WYFTH300T2M



WYFTH400T2M



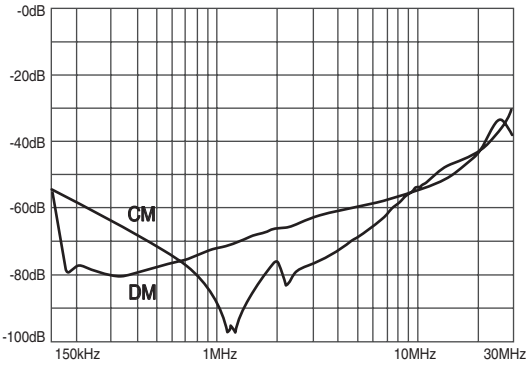
※CM : Common mode, DM : Differential mode

3Ø 250~500V 고감쇄형 Characteristics

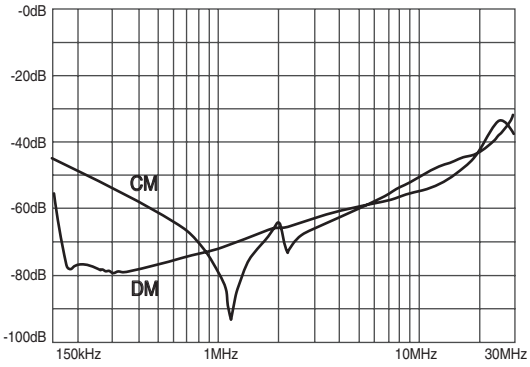
RoHS

Characteristics

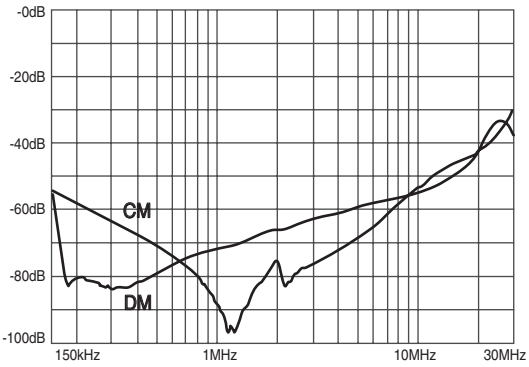
WYFTH500T2M



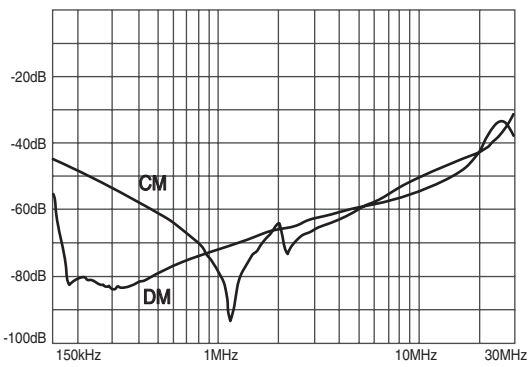
WYFTH600T2M



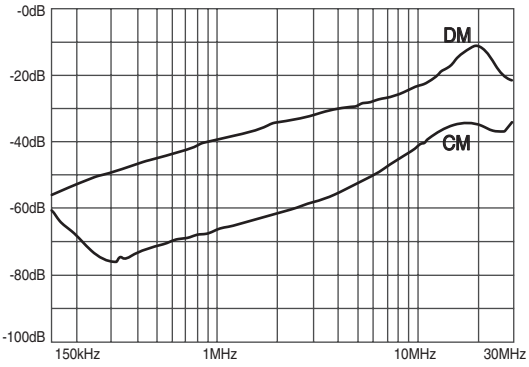
WYFTH800T2M



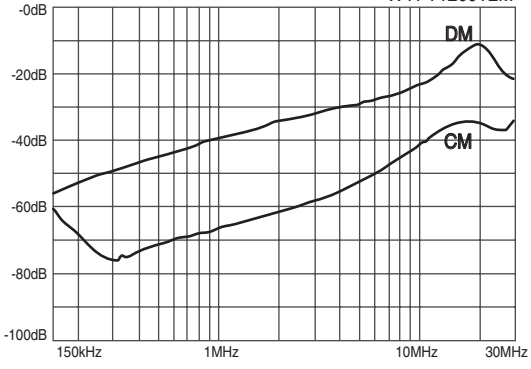
WYFTH1000T2M



WYFTH1200T2M



WYFT1200T2M

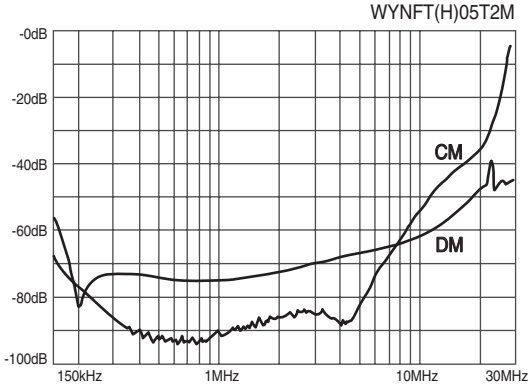


※CM : Common mode, DM : Differential mode

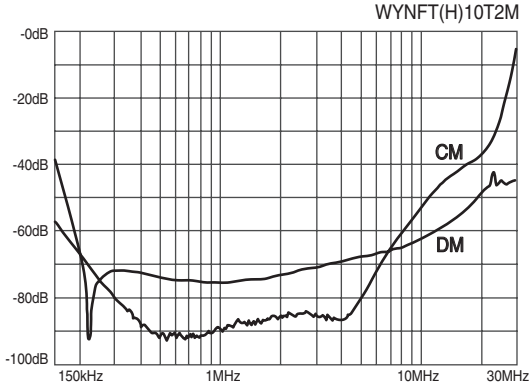
UL 3Ø 250~500V 고감쇄형 Characteristics

● Characteristics

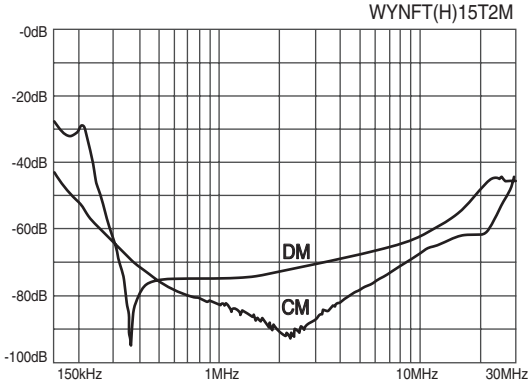
WYNFT(H)05T2M



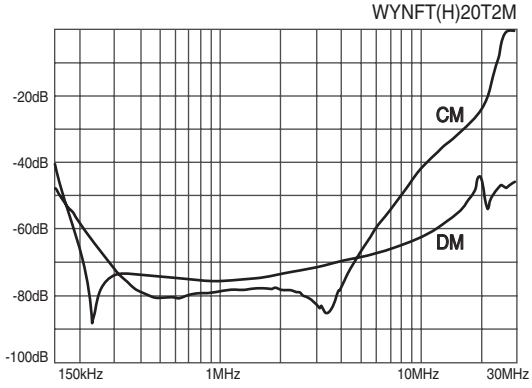
WYNFT(H)10T2M



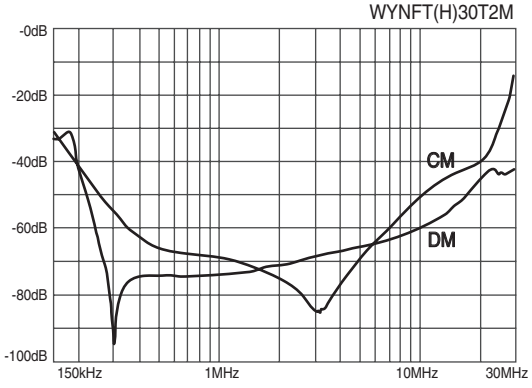
WYNFT(H)15T2M



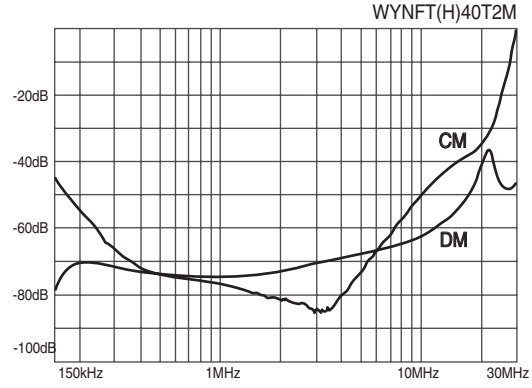
WYNFT(H)20T2M



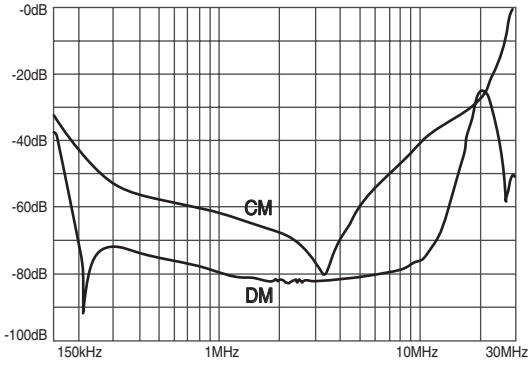
WYNFT(H)30T2M



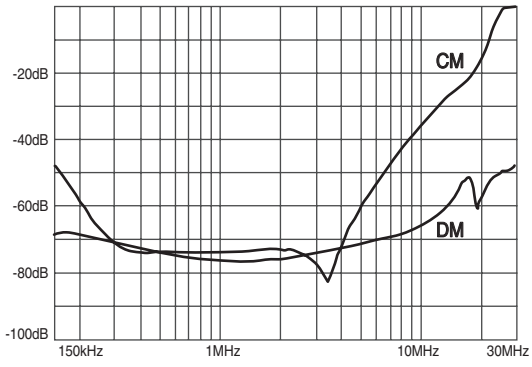
WYNFT(H)40T2M



WYNFT(H)50T2M



WYNFT(H)60T2M



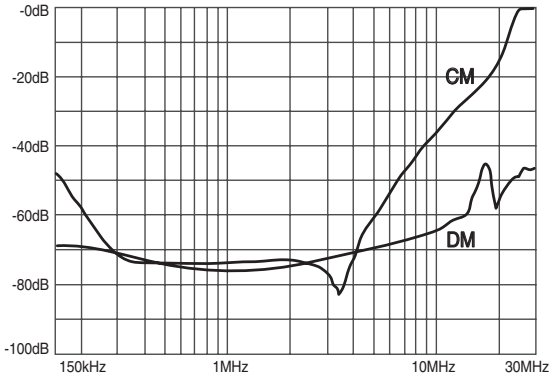
※CM : Common mode, DM : Differential mode

UL 3Ø 250~500V 고감쇄형 Characteristics

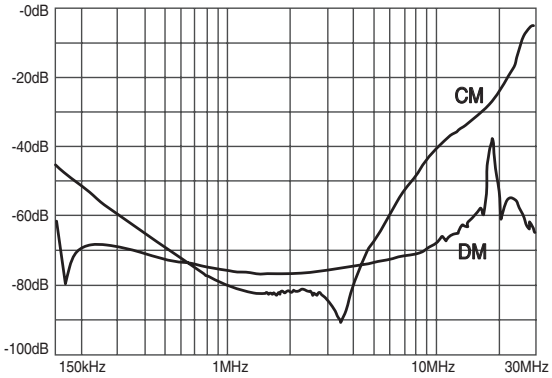
RoHS

Characteristics

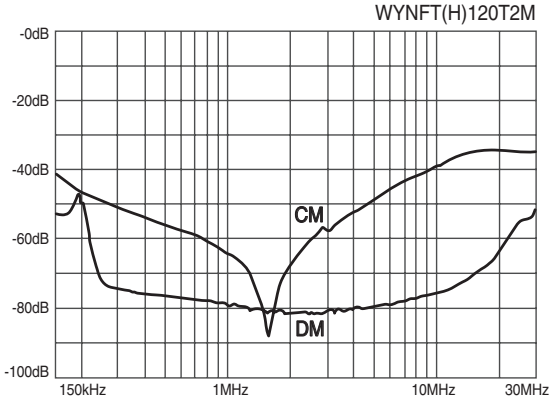
WYNFT(H)80T2M



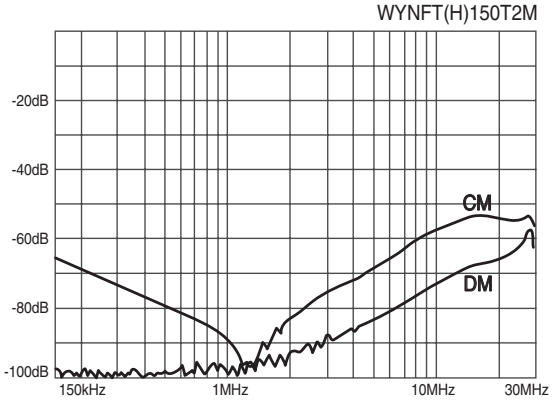
WYNFT(H)100T2M



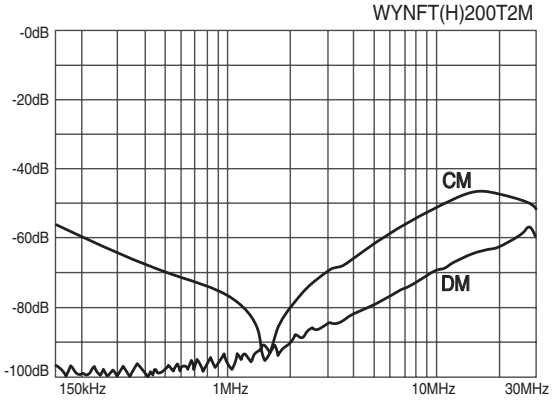
WYNFT(H)120T2M



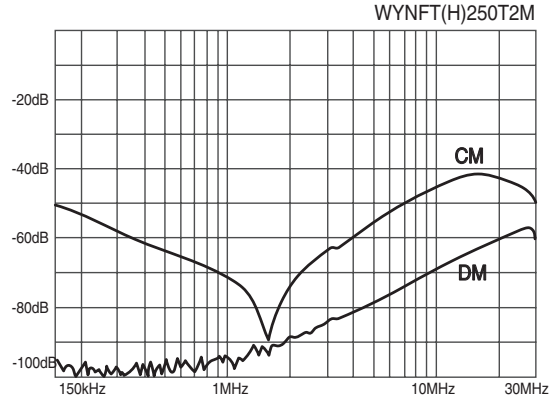
WYNFT(H)150T2M



WYNFT(H)200T2M



WYNFT(H)250T2M



※CM : Common mode, DM : Differential mode

3P4W
노이즈필터
Noise Filter

3P4W 전용 노이즈필터





- 3P4W 500V 20~400A

⚠ Warning

HIGH LEAKAGE CURRENT
The protective earth connections shall be the first to be made when the noise filter is installed and the last to be disconnected.

⚠ Danger

DANGER OF ELECTRIC SHOCK
Noise filters contain components that store an electric charge. Dangerous voltages can continue to exist at the filter terminals for longer than five minutes even after the power has been switched off.

3P4W 500V

RoHS



Features

본 노이즈필터는 250~500V의 계통에 적용되며 기존의 삼상 선로에만 적용하던 것을 3P4W 선로의 중성 선에도 필터를 적용하여 AVR, UPS, 의료기장비 및 기타 3상4선식 선로에 적용되는 노이즈필터입니다.

This is multi stage(premium) type of noise filter which is normally used to AVR, UPS, medical equipment and 3phase－4wire system line is available to use between 250V and 500V and not only to 3wire system but also 3phase－4wire system line.

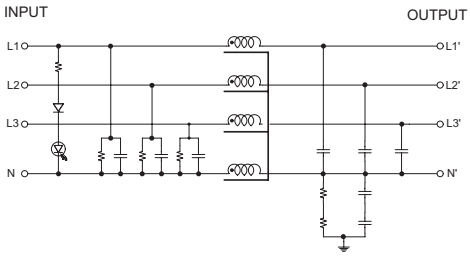
- Wide Band : High Attenuation
- Band Width : 150kHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYF4TH20T2C)

Specifications

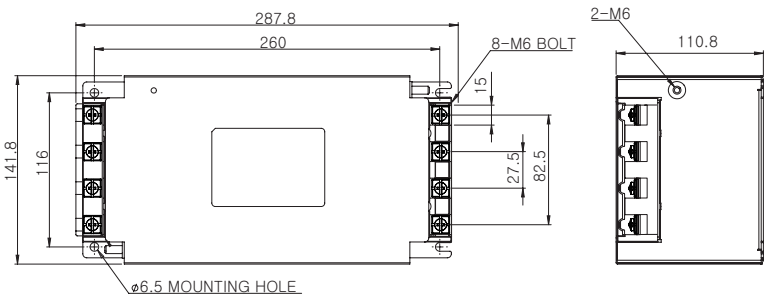
ITEM \ MODEL	SYMBOL	WYF4TH20T2M	WYF4TH30T2M
Rated Voltage	V	500	
Rated Current	A	20	30
Frequency	Hz	50 / 60	
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)	
Insulation Resistance	MΩ	300	
Leakage Current	mA	25〈at the 500 Vac〉	
Operating Temperature	℃	－25℃ ~ ＋100℃ [Refer to Derating Curve TYPE－2]	
Operating Humidity	RH	35 ~ 85%RH	
Weight	kg	2.0	

※Derating Curve of page 519

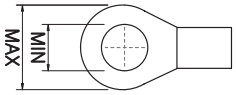
Circuit Diagram



Dimension



Terminal



Max 14 , Min 6



Features

본 노이즈필터는 250~500V의 계통에 적용되며 기존의 삼상 선로에만 적용하던 것을 3P4W 선로의 중성 선에도 필터를 적용하여 AVR, UPS, 의료기장비 및 기타 3상4선식 선로에 적용되는 노이즈필터입니다.

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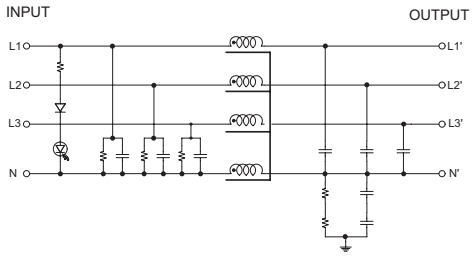
- Wide Band : High Attenuation
- Band Width : 150kHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYF4TH40T2C)

Specifications

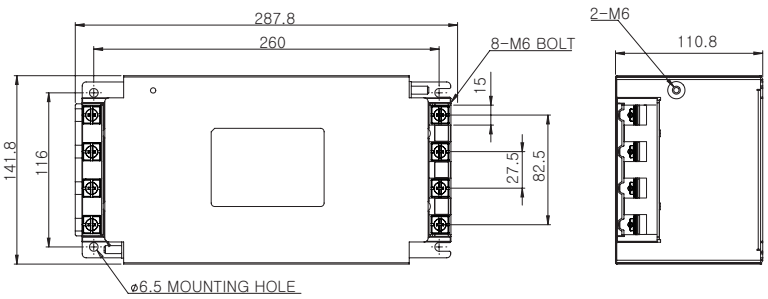
ITEM \ MODEL	SYMBOL	WYF4TH40T2M	WYF4TH50T2M	WYF4TH60T2M
Rated Voltage	V	500		
Rated Current	A	40	50	60
Frequency	Hz	50 / 60		
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)		
Insulation Resistance	MΩ	300		
Leakage Current	mA	45〈at the 500 Vac〉		
Operating Temperature	℃	－25℃ ~ +100℃ [Refer to Derating Curve TYPE－2]		
Operating Humidity	RH	35 ~ 85%RH		
Weight	kg	4.2		5.1

※Derating Curve of page 519

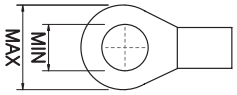
Circuit Diagram



Dimension



Terminal



Max 14 , Min 6

3P4W 500V

CE RoHS



Features

본 노이즈필터는 250~500V의 계통에 적용되며 기존의 삼상 선로에만 적용하던 것을 3P4W 선로의 중성 선에도 필터를 적용하여 AVR, UPS, 의료기장비 및 기타 3상4선식 선로에 적용되는 고감쇄형(Multi-stage) 노이즈필터입니다.

This is multi stage(premium) type of noise filter which is normally used to AVR, UPS, medical equipment and 3phase-4wire system line is available to use between 250V and 500V and not only to 3wire system but also 3phase-4wire system line.

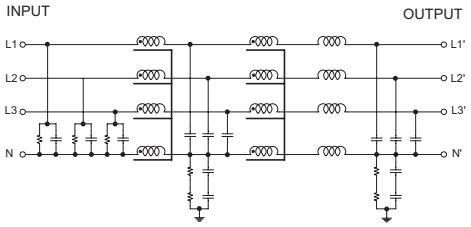
- Wide Band : High Attenuation
- Band Width : 150kHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYF4TH80T2C)

Specifications

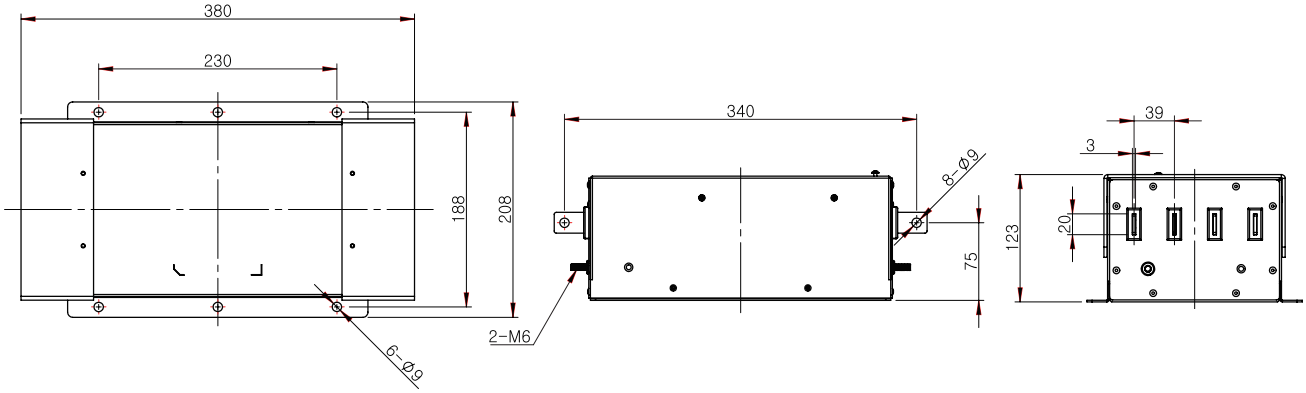
ITEM \ MODEL	SYMBOL	WYF4TH80T2M	WYF4TH100T2M	WYF4TH120T2M	WYF4TH150T2M
Rated Voltage	V	500			
Rated Current	A	80	100	120	150
Frequency	Hz	50 / 60			
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)			
Insulation Resistance	MΩ	300			
Leakage Current	mA	45〈at the 500 Vac〉			
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−2]			
Operating Humidity	RH	35 ~ 85%RH			
Weight	kg	5.1	6.0		

※ Derating Curve of page 519

Circuit Diagram



Dimension



3P4W 500V

RoHS



Features

본 노이즈필터는 250~500V의 계통에 적용되며 기존의 삼상 선로에만 적용하던 것을 3P4W 선로의 중성 선에도 필터를 적용하여 AVR, UPS, 의료기장비 및 기타 3상4선식 선로에 적용되는 고감쇄형(Multi－stage) 노이즈필터입니다.

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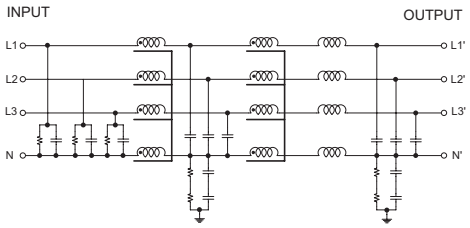
- Wide Band : High Attenuation
- Band Width : 150kHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYF4TH200T2C)
- KC(안전인증) : Approved by HK03001－16005C

Specifications

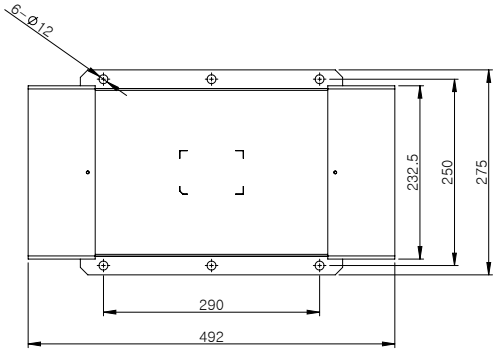
ITEM \ MODEL	SYMBOL	WYF4TH200T2M	WYF4TH250T2M	WYF4TH300T2M	WYF4TH400T2M	WYF4TH500T2M	WYF4TH600T2M
Rated Voltage	V	500					
Rated Current	A	200	250	300	400	500	600
Frequency	Hz	50 / 60					
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)					
Insulation Resistance	MΩ	300					
Leakage Current	mA	90〈at the 500 Vac〉					
Operating Temperature	℃	－25℃ ~ +100℃ [Refer to Derating Curve TYPE－2]					
Operating Humidity	RH	35 ~ 85%RH					
Weight	kg	6.5		7.1		7.8	

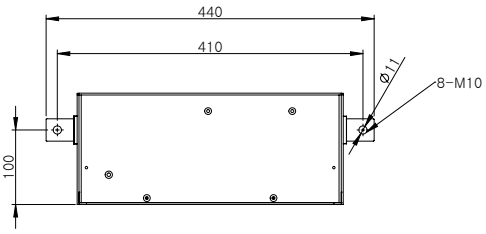
※Derating Curve of page 519

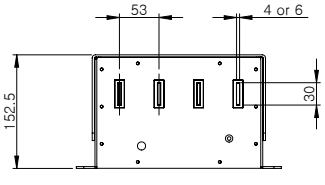
Circuit Diagram



Dimension



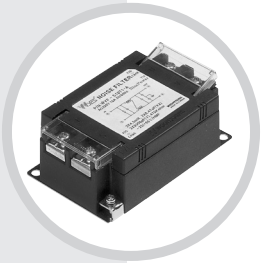




WY3F4TH200~400T2M : BUSBAR, 4t
WY3F4TH400~600T2M : BUSBAR, 6t

노이즈필터
Noise Filter

1Ø 고급형(High Quality Type)





·1Ø 250V 6~50A

1Ø 250V 고급형 High Quality Type

UL 인증



Features

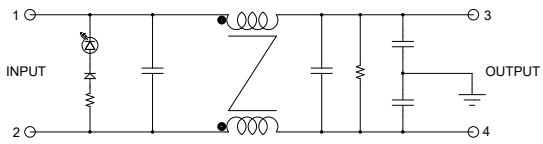
- 2 Mounting Option
  - WYF****D : Din Rail Mounting
  - WYF**** : Screw Mounting
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- KC(안전인증)
  Approved by HK03001-22016B
- UL Cer. No : E521164

Specifications

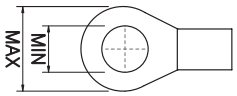
ITEM \ MODEL	SYMBOL	WYFS06T1B (D)	WYFS10T1B (D)	WYFS15T1B (D)	WYFS20T1B (D)	WYFS30T1B (D)
Rated Voltage	V	250				
Rated Current	A	6	10	15	20	30
Frequency	Hz	50 / 60				
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)				
Insulation Resistance	MΩ	500MΩ at the 500VDC				
Leakage Current	mA	≤1.1mA at the 250VAC				
Operating Temperature	℃	-25℃ ~ +100℃ [Refer to Derating Curve TYPE-1]				
Operating Humidity	RH	35 ~ 85%RH				
Weight	kg	0.3				

※Derating Curve of page 519

Circuit Diagram

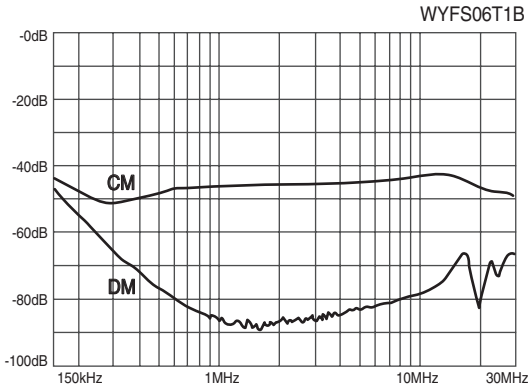


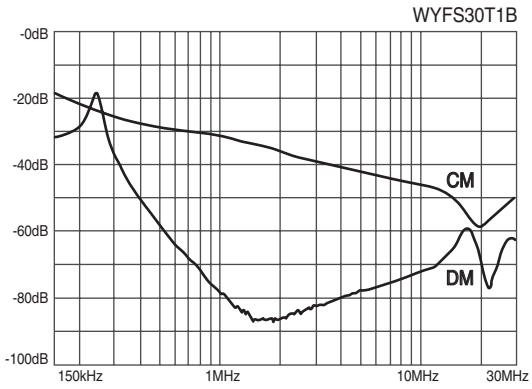
Terminal



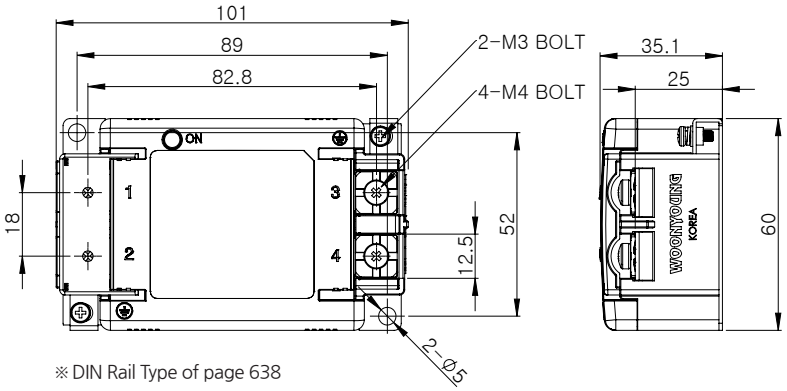
Max 12 , Min 4

Characteristics





Dimension



※ DIN Rail Type of page 638

1Ø 250V 고급형 High Quality Type

UL 인증



Features

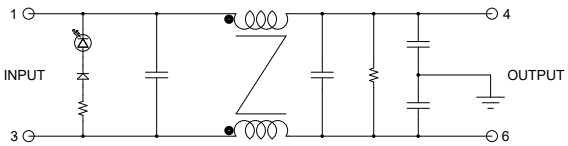
- 2 Mounting Option
  - WYF****D : Din Rail Mounting
  - WYF**** : Screw Mounting
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- UL Cer. No : E521164

Specifications

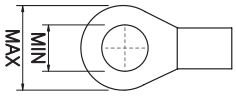
ITEM \ MODEL	SYMBOL	WYFS40T1B (D)	WYFS50T1B (D)
Rated Voltage	V	250	
Rated Current	A	40	50
Frequency	Hz	50 / 60	
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)	
Insulation Resistance	MΩ	500MΩ at the 500VDC	
Leakage Current	mA	≤1.5mA at the 250VAC	
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−1]	
Operating Humidity	RH	35 ~ 8 5%RH	
Weight	kg	0.5	

※ Derating Curve of page 519

Circuit Diagram

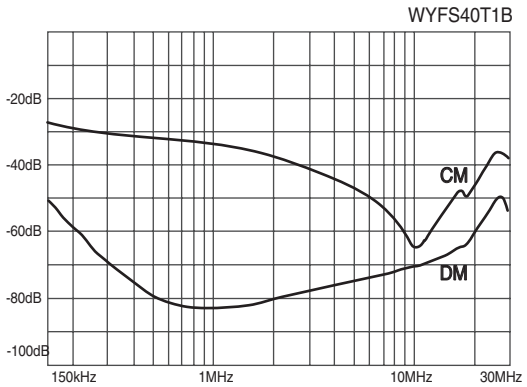


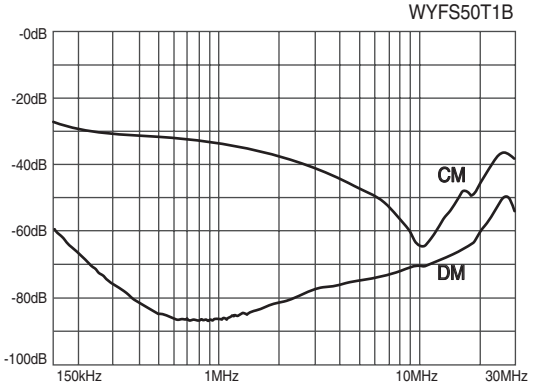
Terminal



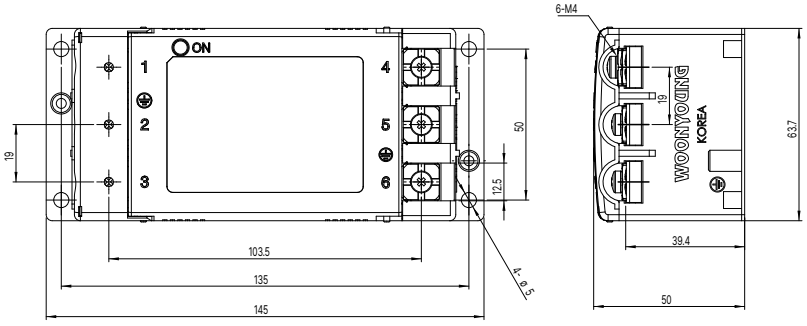
Max 12 , Min 4(40~50A)

Characteristics





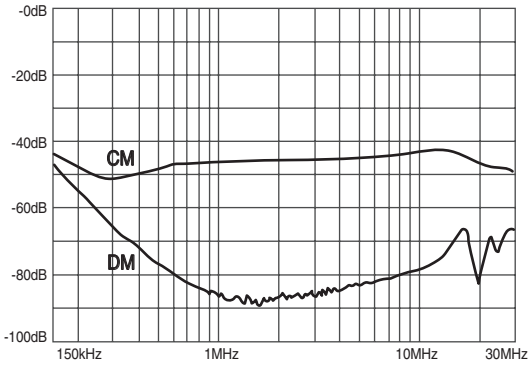
Dimension



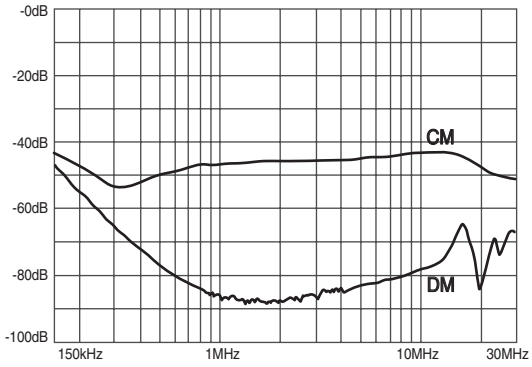
※ DIN Rail Type of page 638

Characteristics

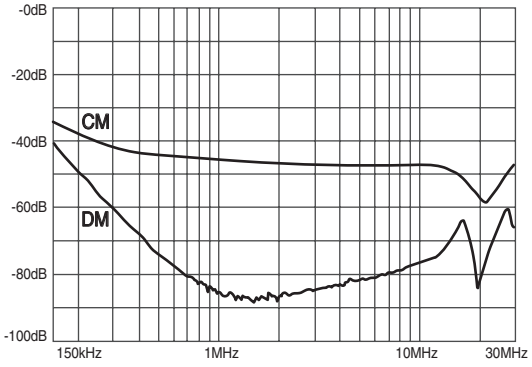
WYFS06T1B



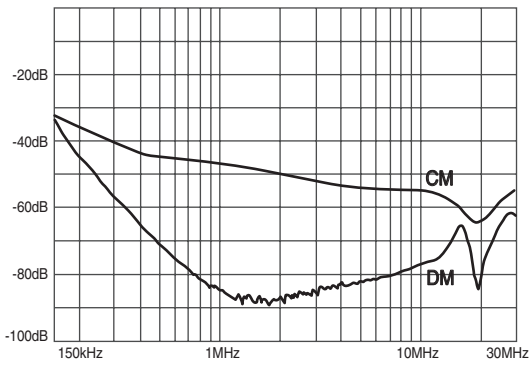
WYFS10T1B



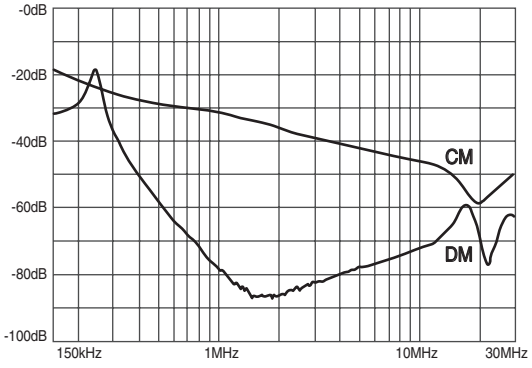
WYFS15T1B



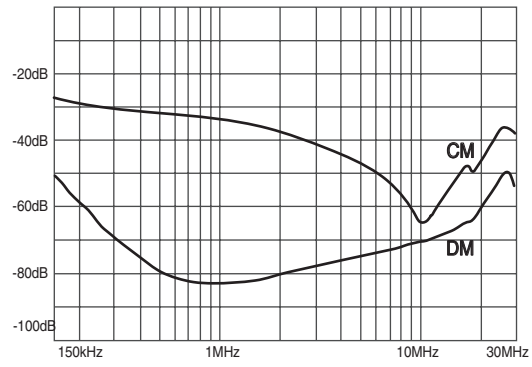
WYFS20T1B



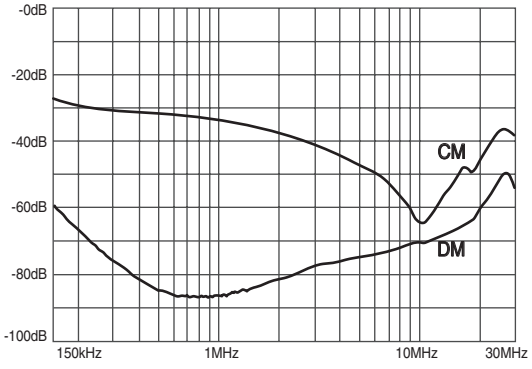
WYFS30T1B



WYFS40T1B



WYFS50T1B



※CM : Common mode, DM : Differential mode

노이즈필터
Noise Filter

3Ø 고급형(High Quality Type)







- 3Ø 250V 5~50A
- 3Ø 500V 5~50A

3Ø 250V 고급형 High Quality Type

UL 인증



Features

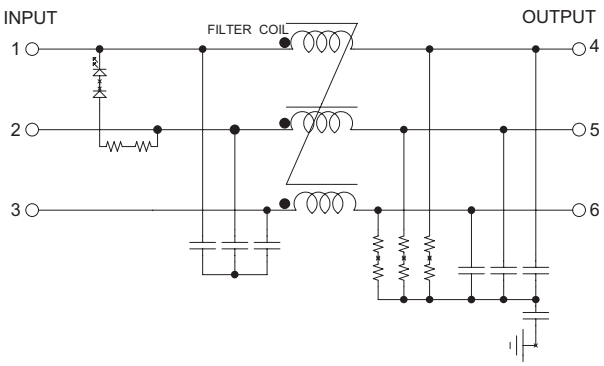
- 2 Mounting Option
  - WYF****D : Din Rail Mounting
  - WYF**** : Screw Mounting
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- KC(안전인증)
  Approved by HK03001-22015B
- UL Cer. No : E521164

Specifications

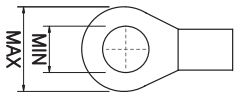
ITEM \ MODEL	SYMBOL	WYFT05T1B (D)	WYFT10T1B (D)	WYFT15T1B (D)	WYFT20T1B (D)	WYFT30T1B (D)
Rated Voltage	V	250				
Rated Current	A	5	10	15	20	30
Frequency	Hz	50 / 60				
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)				
Insulation Resistance	MΩ	500				
Leakage Current	mA	0.8				
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−2]				
Operating Humidity	RH	35 ~ 85%RH				
Weight	kg	0.5				

※ Derating Curve of page 519

Circuit Diagram

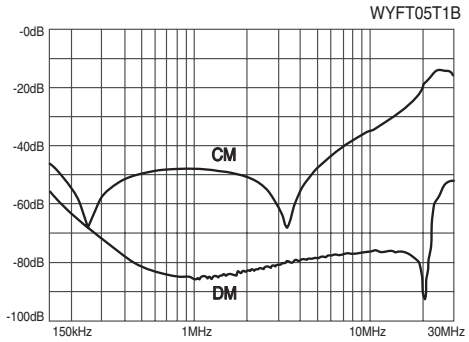


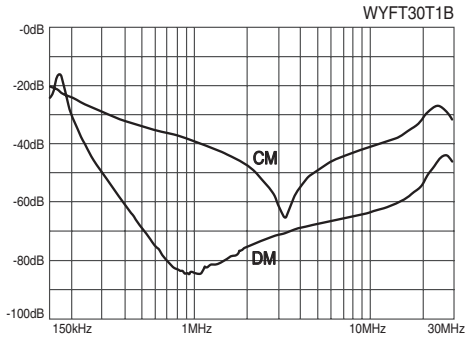
Terminal



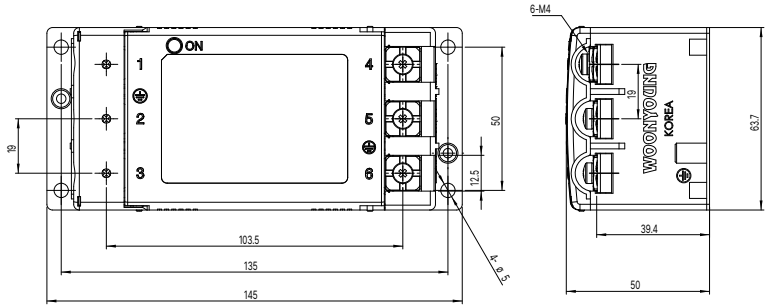
Max 12 , Min 4

Characteristics





Dimension



※ DIN Rail Type of page 638

N Series 3Ø 250V 고급형 (High Quality Type)

KC CE RoHS



Features

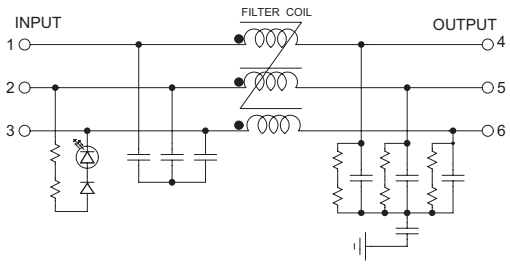
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant
- KC(안전인증) :
  Approved by HK03001-23019B

Specifications

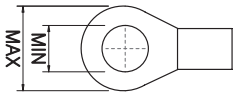
ITEM \ MODEL	SYMBOL	WYNFT40T2B	WYNFT50T2B
Rated Voltage	V	250	
Rated Current	A	40A	50A
Frequency	Hz	50 / 60	
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)	
Insulation Resistance	MΩ	DC 100MΩ at the 500Vdc	
Leakage Current	mA	≤4.5mA at the 250Vac	
Operating Temperature	℃	-25℃ ~ +100℃ [Refer to Derating Curve TYPE-2]	
Operating Humidity	RH	35 ~ 85%RH	
Weight	kg	1.2	

※ Derating Curve of page 519

Circuit Diagram

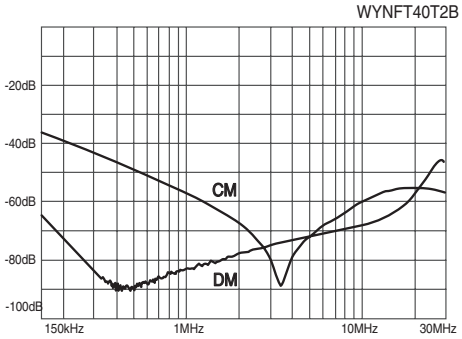


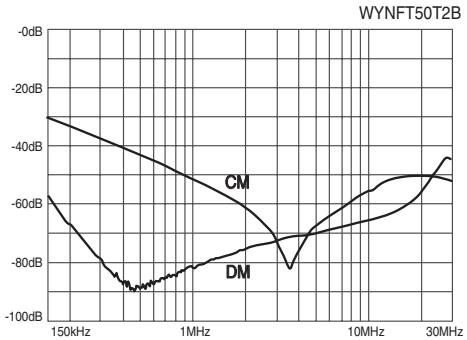
Terminal



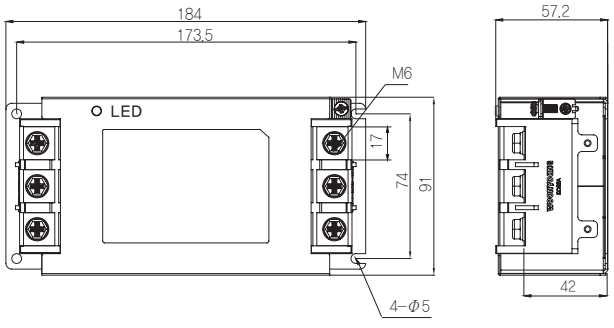
Max 16, Min 6 (40~50A)

Characteristics





Dimension



3Ø 250V 고급형 High Quality Type

CE RoHS



Features

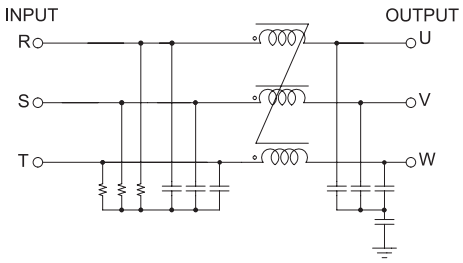
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant

Specifications

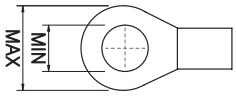
ITEM \ MODEL	SYMBOL	WYFT40T2B	WYFT50T2B
Rated Voltage	V	250	
Rated Current	A	40	50
Frequency	Hz	50 / 60	
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)	
Insulation Resistance	MΩ	500	
Leakage Current	mA	0.8	
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−2]	
Operating Humidity	RH	35 ~ 85%RH	
Weight	kg	1.2	

※ Derating Curve of page 519

Circuit Diagram

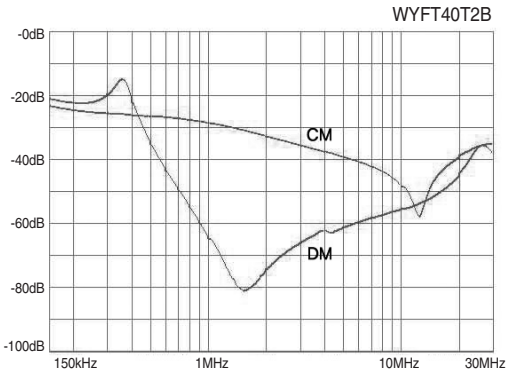


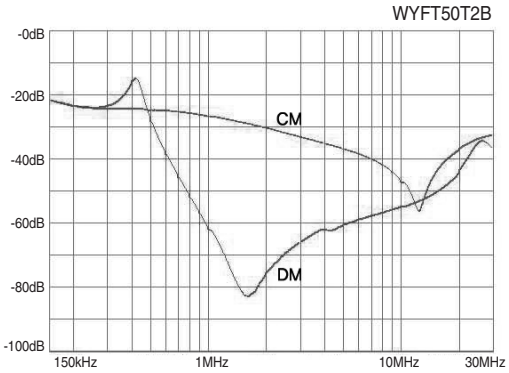
Terminal



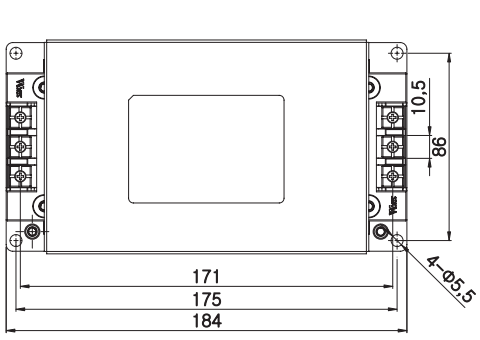
Max 10.5 , Min 4

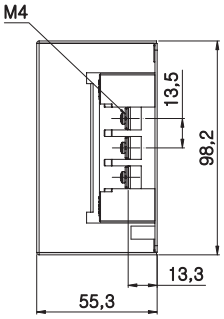
Characteristics





Dimension





UL 인증



Features

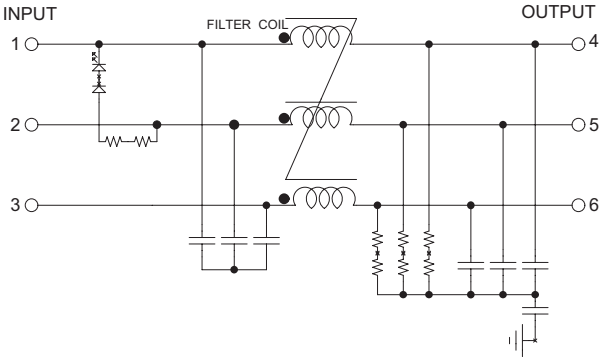
- 2 Mounting Option
  - WYF****D : Din Rail Mounting
  - WYF**** : Screw Mounting
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- KC(안전인증) Approved by HK03001-19008A
- UL Cer. No : E521164

Specifications

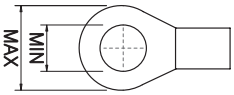
ITEM \ MODEL	SYMBOL	WYFTH05T1B (D)	WYFTH10T1B (D)	WYFTH15T1B (D)	WYFTH20T1B (D)	WYFTH30T1B (D)
Rated Voltage	V	500				
Rated Current	A	5	10	15	20	30
Frequency	Hz	50 / 60				
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)				
Insulation Resistance	MΩ	500				
Leakage Current	mA	1.2				
Operating Temperature	℃	-25℃ ~ +100℃ [Refer to Derating Curve TYPE-2]				
Operating Humidity	RH	35 ~ 85%RH				
Weight	kg	0.5				

※ Derating Curve of page 519

Circuit Diagram

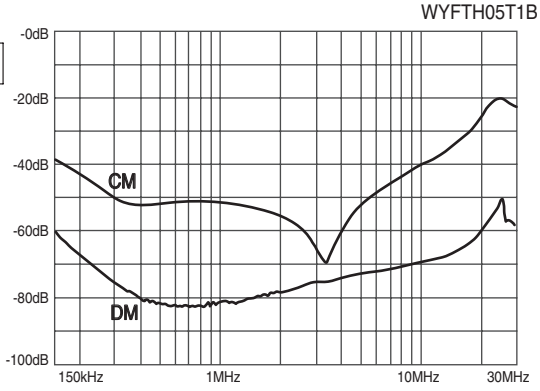


Terminal

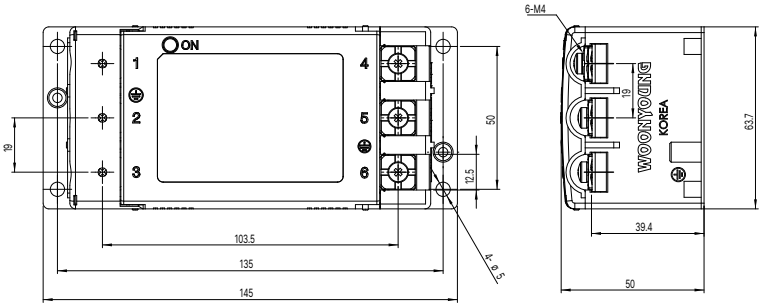


Max 12 , Min 4

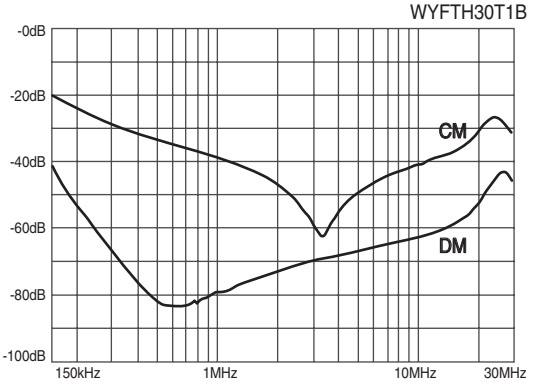
Characteristics



Dimension



※ DIN Rail Type of page 638



N Series 3Ø 500V 고급형 High Quality Type

KC CE RoHS



Features

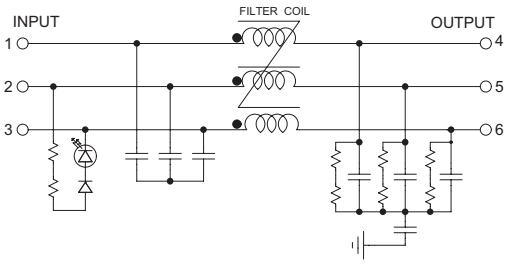
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant
- KC(안전인증) :
  Approved by HK03001-23022B

Specifications

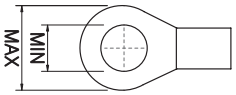
ITEM \ MODEL	SYMBOL	WYNFTH40T2B	WYNFTH50T2B
Rated Voltage	V	500Vac	
Rated Current	A	40A	50A
Frequency	Hz	50 / 60	
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)	
Insulation Resistance	MΩ	DC 100MΩ at the 500Vdc	
Leakage Current	mA	≤4.5mA at the 250Vac	
Operating Temperature	°C	-25°C ~ +100°C [Refer to Derating Curve TYPE-2]	
Operating Humidity	RH	35 ~ 85%RH	
Weight	kg	1.2	

※ Derating Curve of page 519

Circuit Diagram

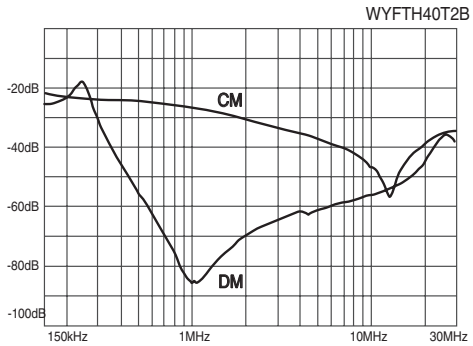


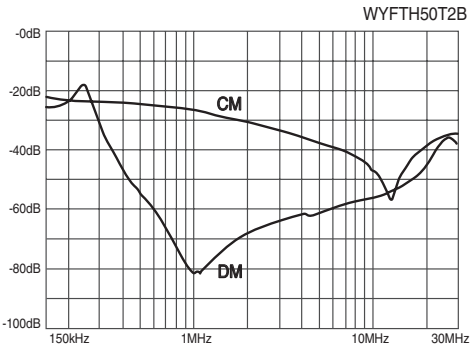
Terminal



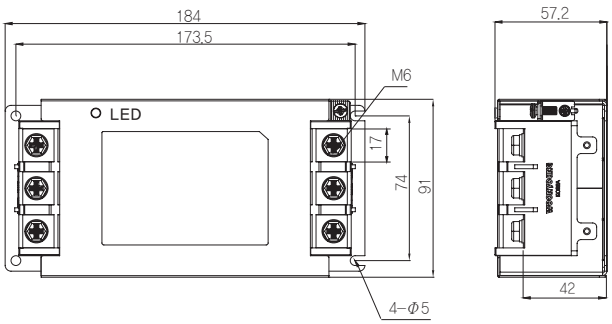
Max 16, Min 6 (40~50A)

Characteristics





Dimension





Features

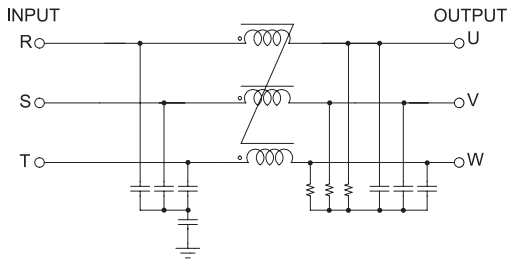
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant

Specifications

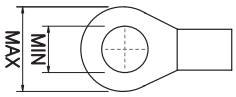
ITEM \ MODEL	SYMBOL	WYFTH40T2B	WYFTH50T2B
Rated Voltage	V	500	
Rated Current	A	40	50
Frequency	Hz	50 / 60	
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)	
Insulation Resistance	MΩ	500	
Leakage Current	mA	1.2	
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−2]	
Operating Humidity	RH	35 ~ 85%RH	
Weight	kg	1.2	

※Derating Curve of page 519

Circuit Diagram

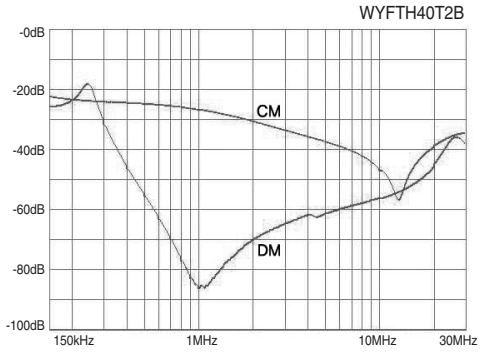


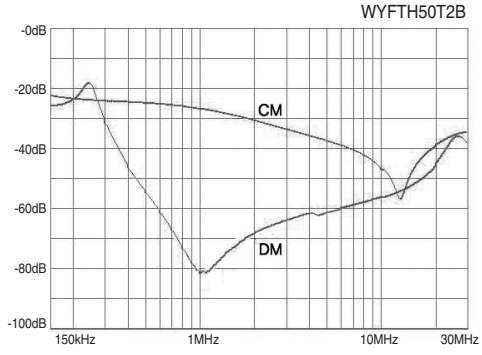
Terminal



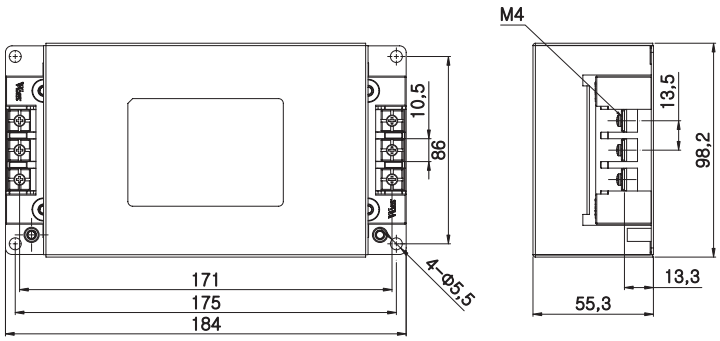
Max 10 , Min 4

Characteristics





Dimension

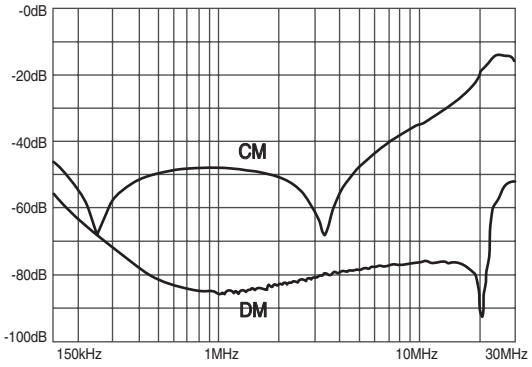


N Series 3Ø 250V 고급형 Characteristics

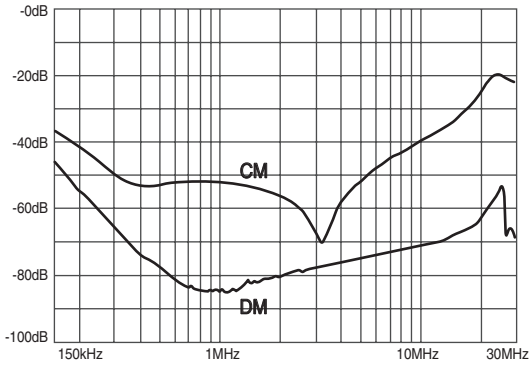
RoHS

● Characteristics

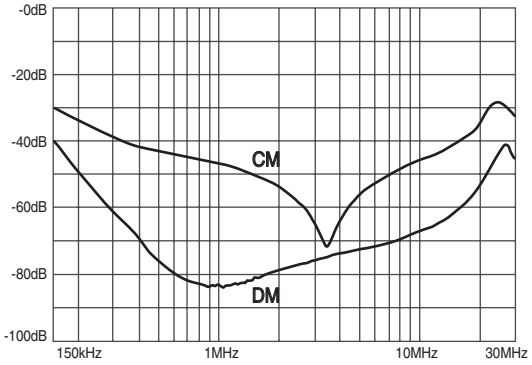
WYFT05T1B



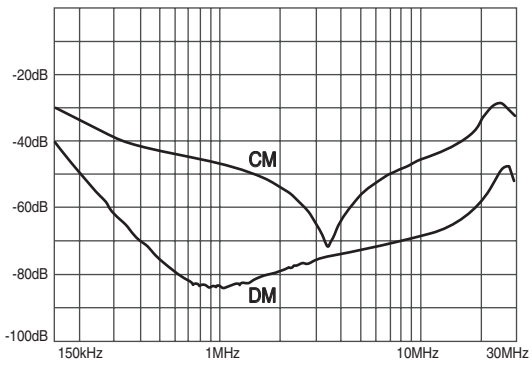
WYFT10T1B



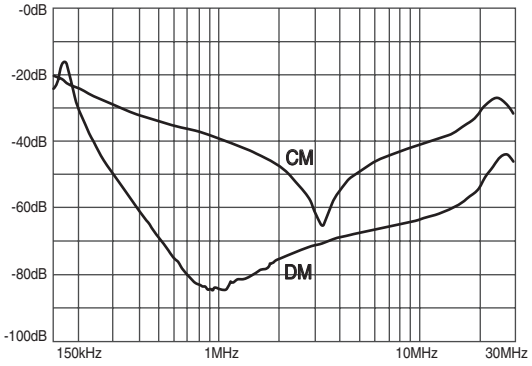
WYFT15T1B



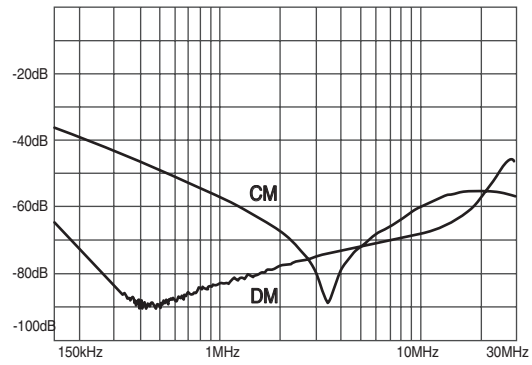
WYFT20T1B



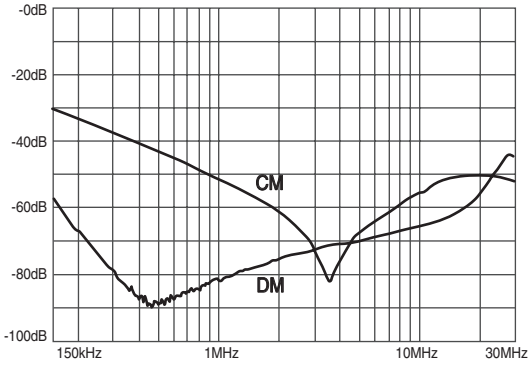
WYFT30T1B



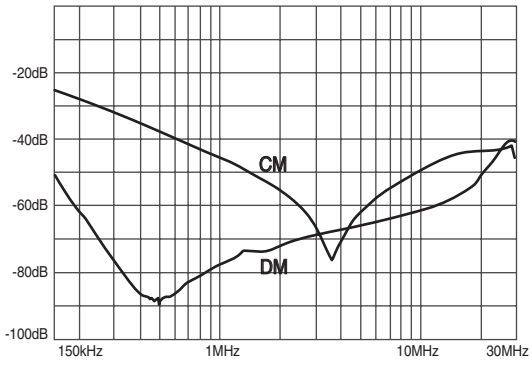
WYNFT40T2B



WYNFT50T2B



WYNFT60T2B

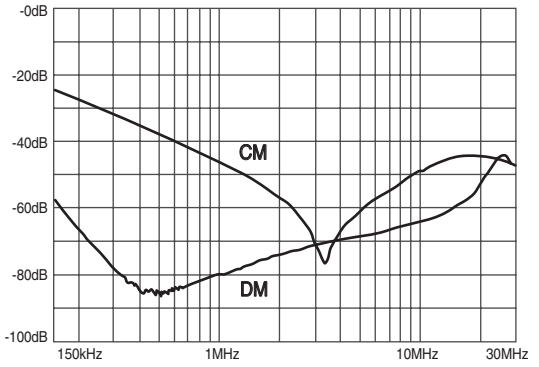


※CM : Common mode, DM : Differential mode

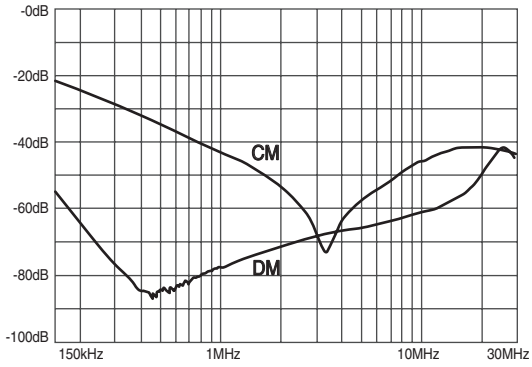
3Ø 250V 고급형 Characteristics

● Characteristics

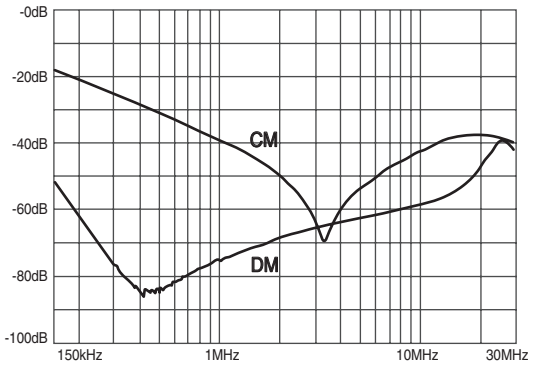
WYNFT80T2B



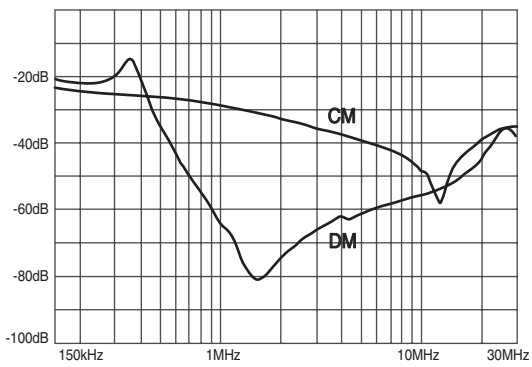
WYNFT100T2B



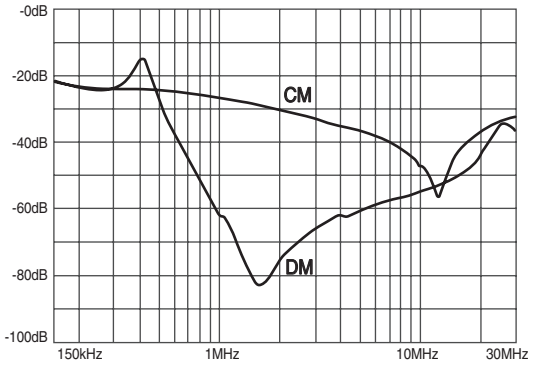
WYNFT120T2B



WYFT40T2B



WYFT50T2B



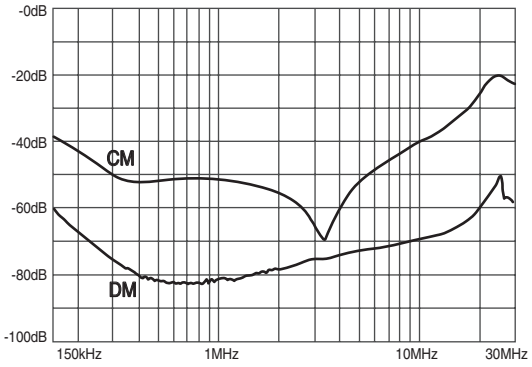
※CM : Common mode, DM : Differential mode

N Series 3Ø 500V 고급형 Characteristics

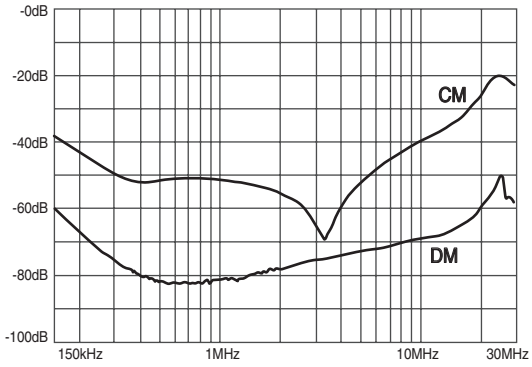
RoHS

● Characteristics

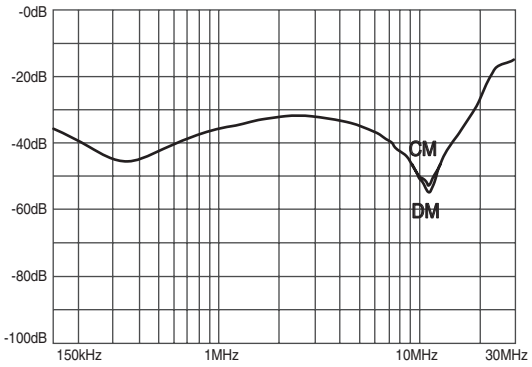
WYFTH05T1B



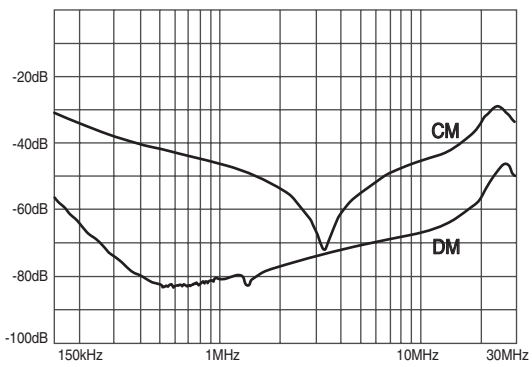
WYFTH10T1B



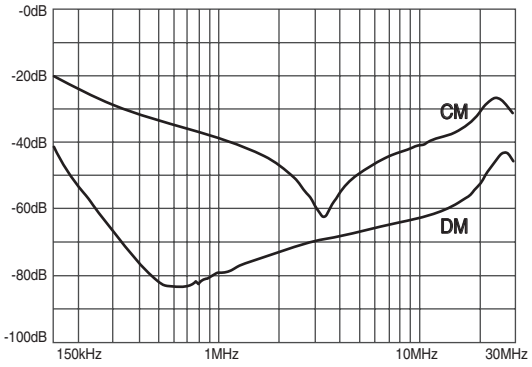
WYFTH15T1B



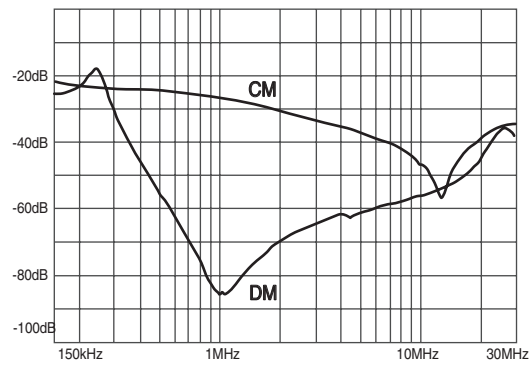
WYFTH20T1B



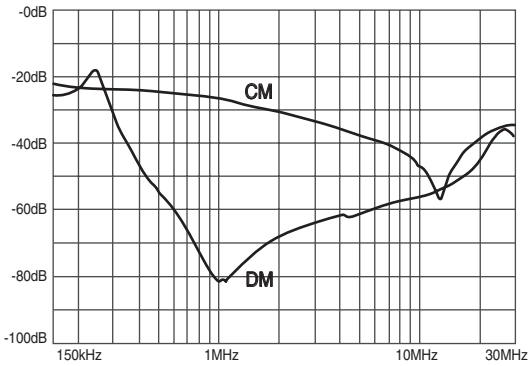
WYFTH30T1B



WYFTH40T2B



WYFTH50T2B



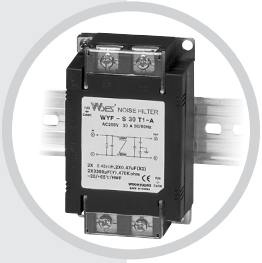
※CM : Common mode, DM : Differential mode

노이즈필터
Noise Filter

1Ø 보급형(General Type)









PCB Insurt Type
- 1Ø 250V 3~6A

DIN-Rail-TD Type
- 1Ø 250V 6~20A

Terminal Type
- 1Ø 250V 6~200A
- 1Ø 500V 6~20A

1Ø 250V PCB Type





Features

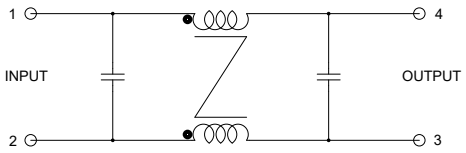
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage

Specifications

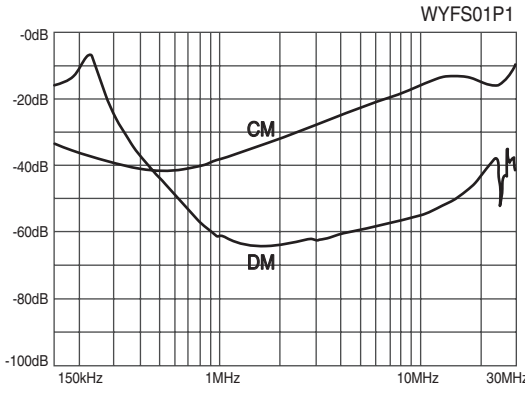
ITEM \ MODEL	SYMBOL	WYFS01P1	WYFS02P1	WYFS03P1	WYFS06P1
Rated Voltage	V	250			
Rated Current	A	1	2	3	6
Frequency	Hz	50 / 60			
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)			
Insulation Resistance	MΩ	500MΩ at the 500VDC			
Leakage Current	mA	≤0.5mA at 250VAC			
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−1]			
Operating Humidity	RH	35 ~ 85%RH			
Weight	g	20			

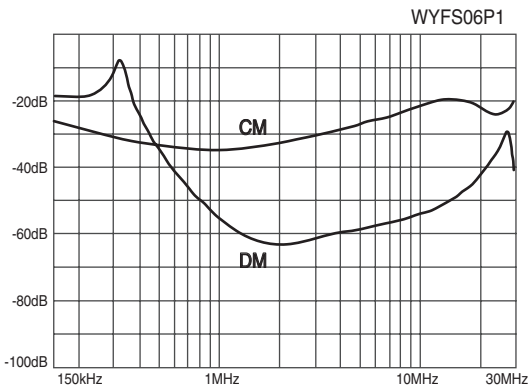
※ Derating Curve of page 519

Circuit Diagram

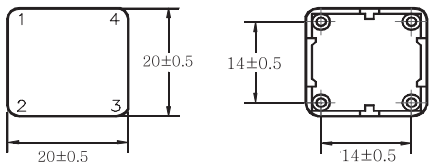


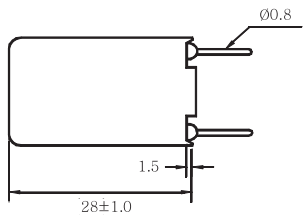
Characteristics





Dimension





1Ø 250V PCB Type



Features

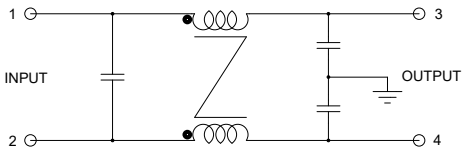
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Small Size & Light Weight
- Low Leakage

Specifications

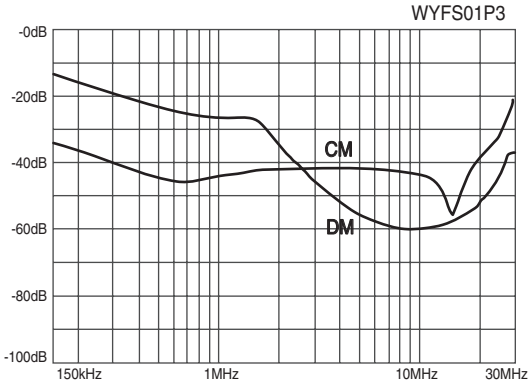
ITEM \ MODEL	SYMBOL	WYFS01P3	WYFS02P3	WYFS03P3	WYFS06P3
Rated Voltage	V	250			
Rated Current	A	1	2	3	6
Frequency	Hz	50 / 60			
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)			
Insulation Resistance	MΩ	500MΩ at the 500VDC			
Leakage Current	mA	≤0.7mA at 250VAC			
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−1]			
Operating Humidity	RH	35 ~ 85%RH			
Weight	g	20			

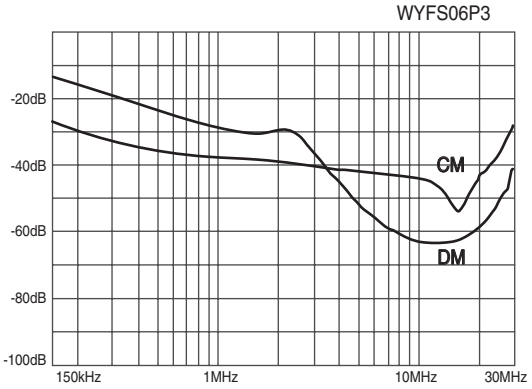
※ Derating Curve of page 519

Circuit Diagram

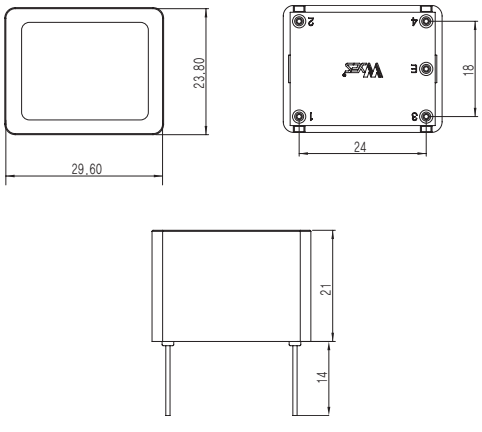


Characteristics





Dimension



1Ø 250V 표준형필터 Lead Wire Type

KC CE RoHS



Features

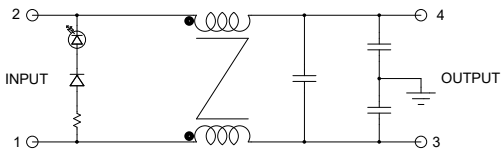
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Small Size & Compact and Light Weight
- Low Leakage
- KC(안전인증) Approved by HK03001-17006C

Specifications

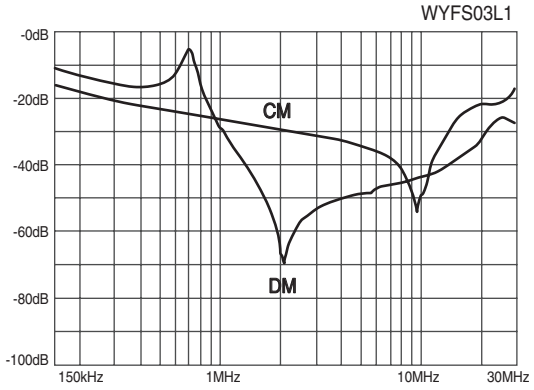
ITEM \ MODEL	SYMBOL	WYFS03L1	WYFS06L1
Rated Voltage	V	250	
Rated Current	A	3	6
Frequency	Hz	50 / 60	
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)	
Insulation Resistance	MΩ	500MΩ at the 500VDC	
Leakage Current	mA	≤0.3mA at 250VAC	
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−1]	
Operating Humidity	RH	35 ~ 85%RH	
Weight	g	60	

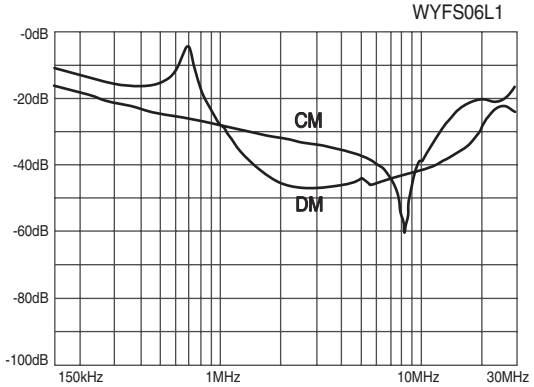
※Derating Curve of page 519

Circuit Diagram

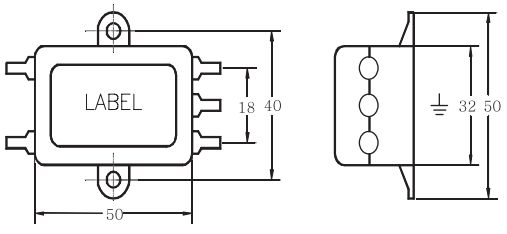


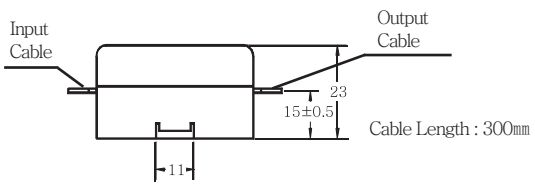
Characteristics





Dimension





1Ø 250V PIN DIN Rail 표준형 필터 PIN Type



Features

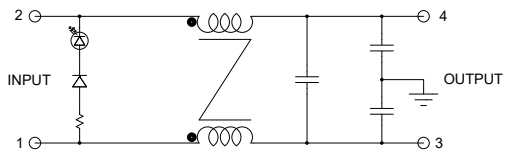
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Small Size & Compact and Light Weight
- Low Leakage
- KC(안전인증) Approved by HK03001-17006C

Specifications

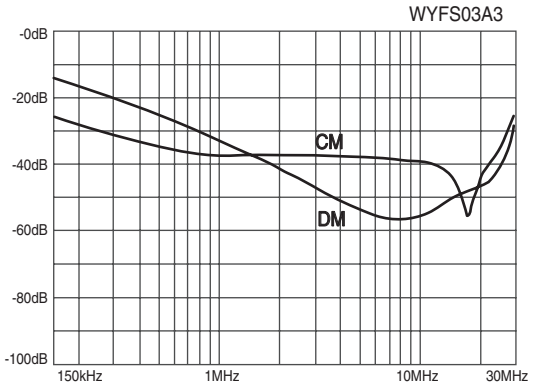
ITEM \ MODEL	SYMBOL	WYFS03A3	WYFS06A3
Rated Voltage	V	250	
Rated Current	A	3	6
Frequency	Hz	50 / 60	
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)	
Insulation Resistance	MΩ	500MΩ at the 500VDC	
Leakage Current	mA	≤0.3mA at 250VAC	
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−1]	
Operating Humidity	RH	35 ~ 85%RH	
Weight	g	40	

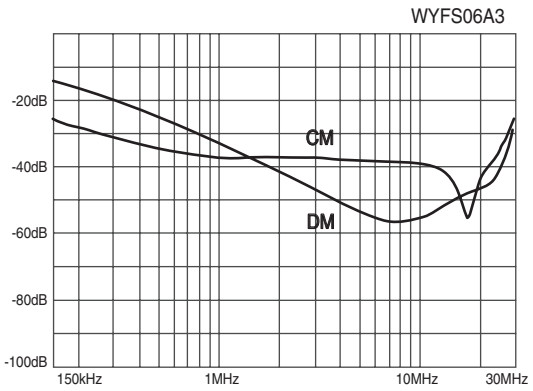
※Derating Curve of page 519

Circuit Diagram

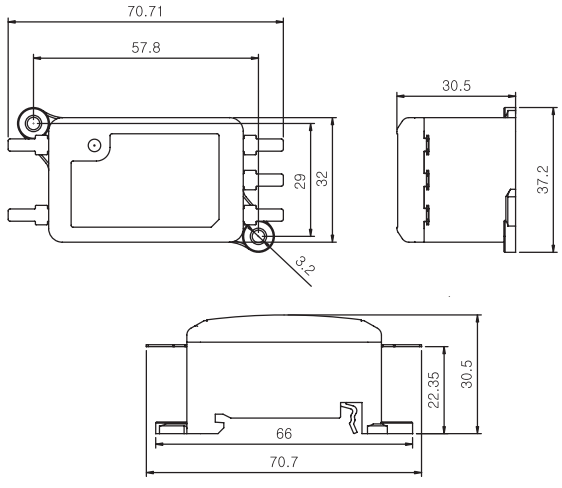


Characteristics





Dimension



1Ø 250V PIN 표준형필터 PIN Type

RoHS



Features

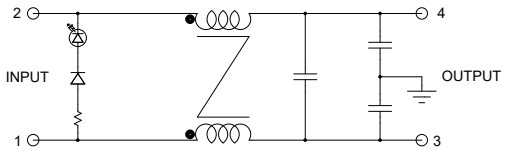
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Small Size & Compact and Light Weight
- Low Leakage
- KC(안전인증) Approved by HK03001-17006C

Specifications

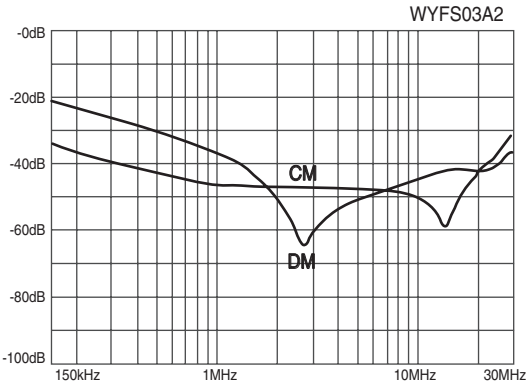
ITEM \ MODEL	SYMBOL	WYFS03A2	WYFS06A2
Rated Voltage	V	250	
Rated Current	A	3	6
Frequency	Hz	50 / 60	
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)	
Insulation Resistance	MΩ	500MΩ at the 500VDC	
Leakage Current	mA	≤0.3mA at 250VAC	
Operating Temperature	°C	-25°C ~ +100°C [Refer to Derating Curve TYPE-1]	
Operating Humidity	RH	35 ~ 85%RH	
Weight	g	40	

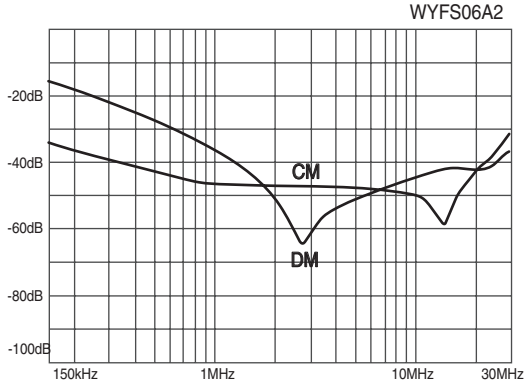
※ Derating Curve of page 519

Circuit Diagram

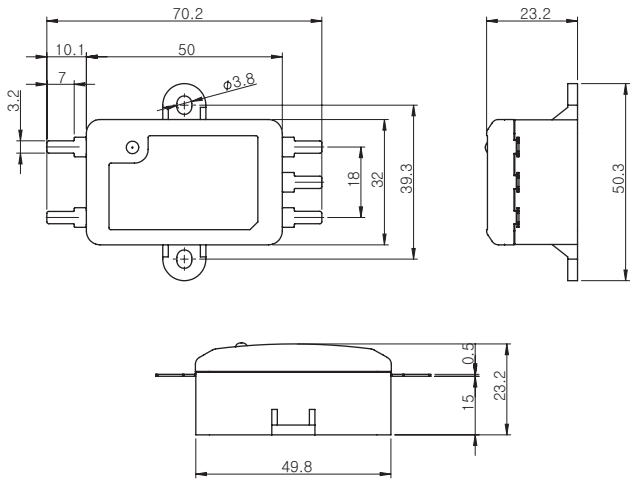


Characteristics





Dimension



1Ø 250V 경제형 DIN Rail & Terminal Type

RoHS

UL 인증





Features

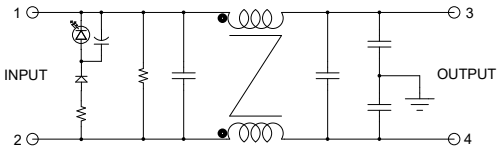
- 2 Mounting : Din Rail & Screw
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- Low Cost
- RoHS Compliant
- KC(안전인증) : Approved by HK03001-22011C
- UL Cer. No : E521164

Specifications

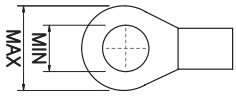
ITEM \ MODEL	SYMBOL	WYFS06TD	WYFS10TD	WYFS15TD	WYFS20TD
Rated Voltage	V	250			
Rated Current	A	6	10	15	20
Frequency	Hz	50 / 60			
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)			
Insulation Resistance	MΩ	500MΩ at the 500VDC			
Leakage Current	mA	≤1.1mA at the 250Vac			
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−1]			
Operating Humidity	RH	35 ~ 85%RH			
Weight	kg	0.1			

※Derating Curve of page 519

Circuit Diagram

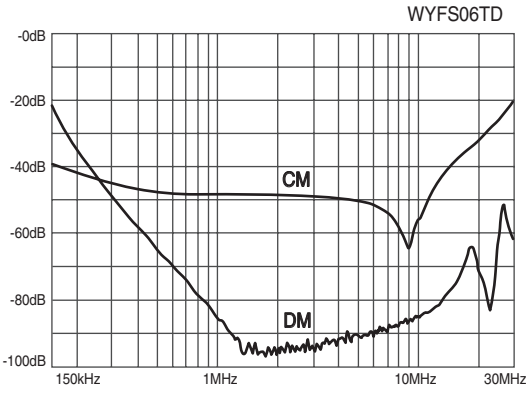


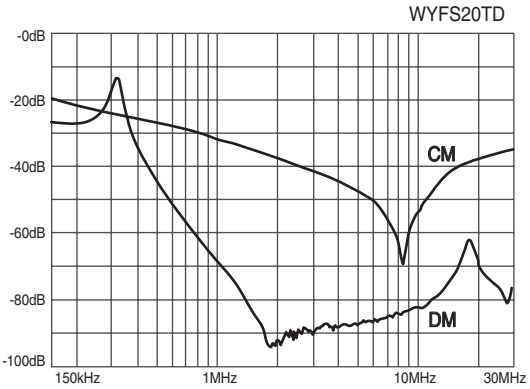
Terminal



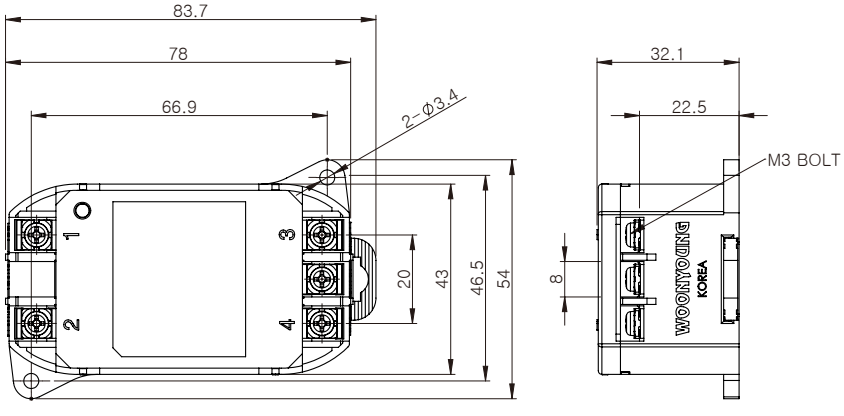
Max 7 , Min 3.5

Characteristics





Dimension



1Ø 250V 보급형 General Type

RoHS



Features

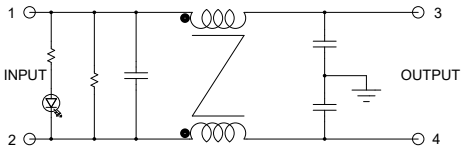
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Small Size & Light Weight
- Low Leakage
- RoHS Compliant
- KC(안전인증)
  Approved by HK03001－22013C

Specifications

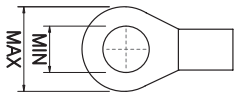
ITEM \ MODEL	SYMBOL	WYFS03TM	WYFS06TM
Rated Voltage	V	250	
Rated Current	A	3	6
Frequency	Hz	50 / 60	
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)	
Insulation Resistance	MΩ	500MΩ at the 500VDC	
Leakage Current	mA	≤0.3mA at 250VAC	
Operating Temperature	℃	－25℃ ~ ＋85℃ [Refer to Derating Curve TYPE－3]	
Operating Humidity	RH	35 ~ 85%RH	
Weight	g	40	

※ Derating Curve of page 519

Circuit Diagram

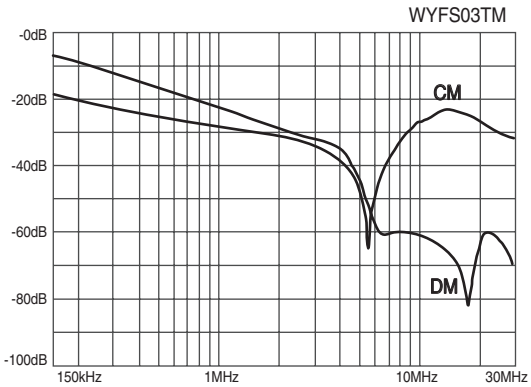


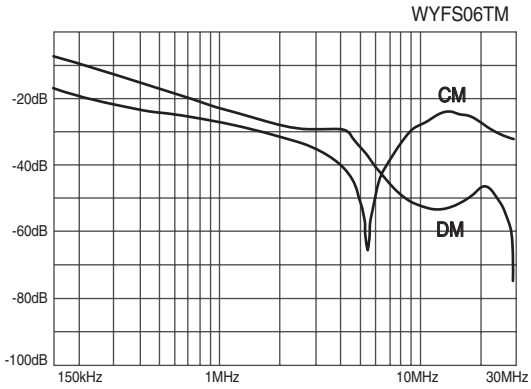
Terminal



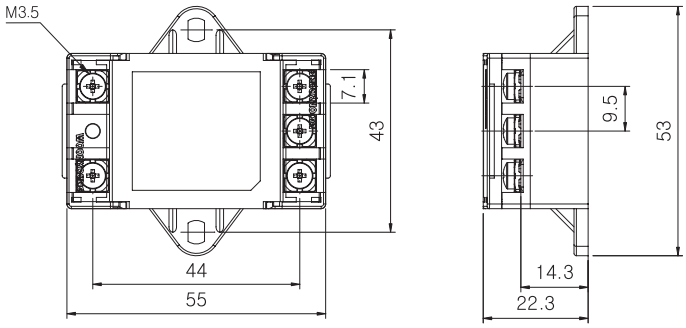
Max 7 , Min 3.5

Characteristics





Dimension



1Ø 250V 보급형 General Type

RoHS

UL 인증



Features

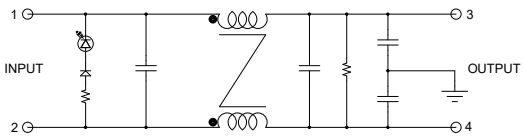
- 2 Mounting Option
  - WYF****D : Din Rail Mounting
  - WYF**** : Screw Mounting
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- KC(안전인증)
  Approved by HK03001-22016B
- UL Cer. No : E521164

Specifications

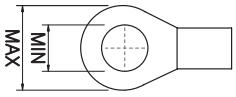
ITEM \ MODEL	SYMBOL	WYFS06T1A(D)	WYFS10T1A(D)	WYFS15T1A(D)	WYFS20T1A(D)	WYFS30T1A(D)
Rated Voltage	V	250				
Rated Current	A	6	10	15	20	30
Frequency	Hz	50 / 60				
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)				
Insulation Resistance	MΩ	500MΩ at the 500VDC				
Leakage Current	mA	≤1.1mA at 250VAC				
Operating Temperature	℃	-25℃ ~ +100℃ [Refer to Derating Curve TYPE-1]				
Operating Humidity	RH	35 ~ 85%RH				
Weight	kg	0.3				

※ Derating Curve of page 519

Circuit Diagram

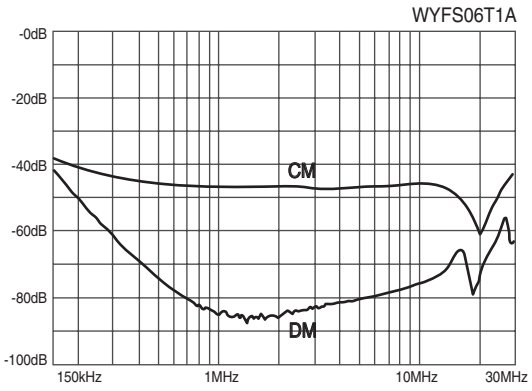


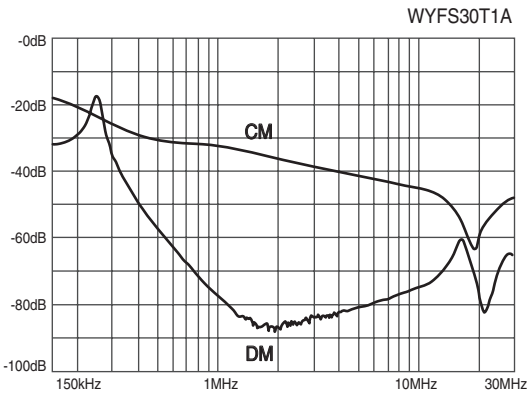
Terminal



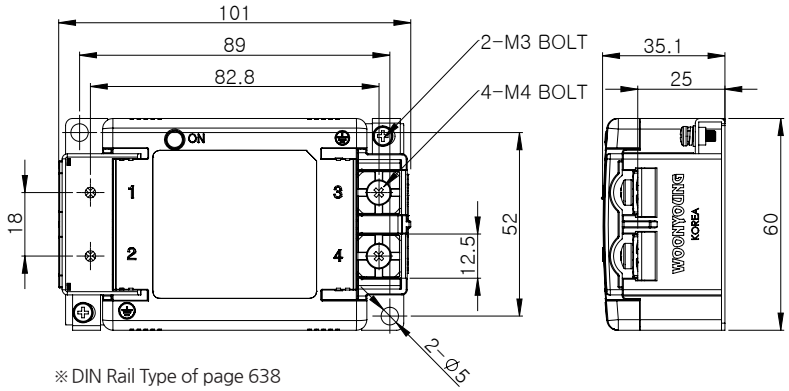
Max 12 , Min 4

Characteristics





Dimension



※ DIN Rail Type of page 638

1Ø 250V 보급형 General Type

UL 인증



Features

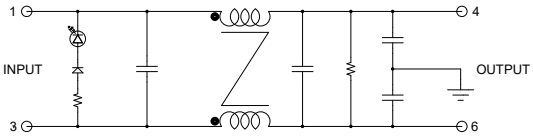
- 2 Mounting Option
  - WYF****D : Din Rail Mounting
  - WYF**** : Screw Mounting
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- KC(안전인증) : Approved by HK03001-24027A
- UL Cer. No : E521164

Specifications

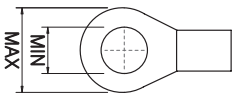
ITEM \ MODEL	SYMBOL	WYFS40T1A(D)	WYFS50T1A(D)
Rated Voltage	V	250	
Rated Current	A	40	50
Frequency	Hz	50 / 60	
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)	
Insulation Resistance	MΩ	500MΩ at the 500VDC	
Leakage Current	mA	≤1.5mA at 250VAC	
Operating Temperature	℃	-25℃ ~ +100℃ [Refer to Derating Curve TYPE-1]	
Operating Humidity	RH	35 ~ 85%RH	
Weight	kg	0.5	

※ Derating Curve of page 519

Circuit Diagram

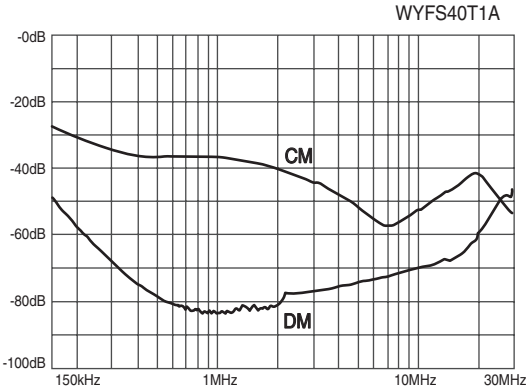


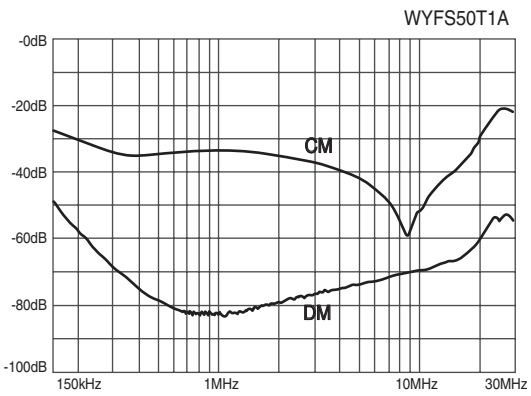
Terminal



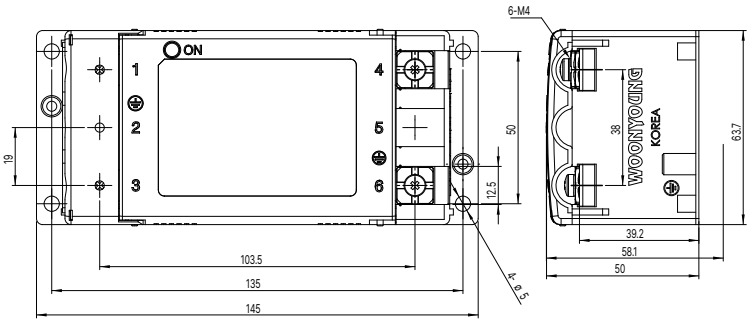
Max 12 , Min 4

Characteristics





Dimension



※ DIN Rail Type of page 638

N Series 1Ø 250V 보급형 General Type



Features

- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant

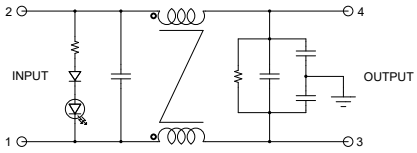
Specifications

ITEM \ MODEL	SYMBOL	WYNFS40T2A	WYNFS50T2A	WYNFS60T2A	WYNFS80T2A	WYNFS100T2A	WYNFS120T2A	WYNFS150T2A
Rated Voltage	V	250Vac						
Rated Current	A	40A	50A	60A	80A	100A	120A	150A
Frequency	Hz	50 / 60						
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)						
Insulation Resistance	MΩ	500MΩ at the 500VDC						
Leakage Current	mA	≤10.6mA at the 250VAC						
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−1]						
Operating Humidity	RH	35 ~ 85%RH						
Weight	kg	1.2				2.2		

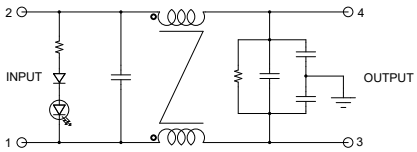
※ Derating Curve of page 519

Circuit Diagram

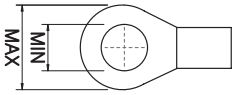
WYNFS40~80T2A



WYNFS100~150T2A



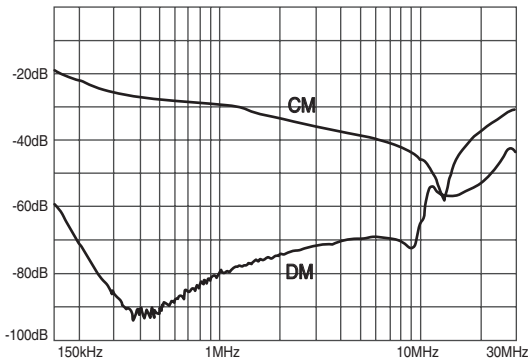
Terminal



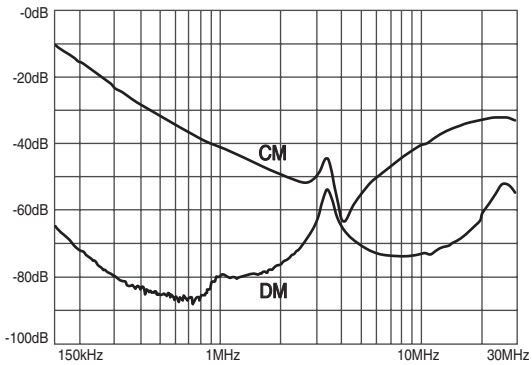
Max 16, Min 6 (40~80A)
Max 23, Min 8 (100~150A)

Characteristics

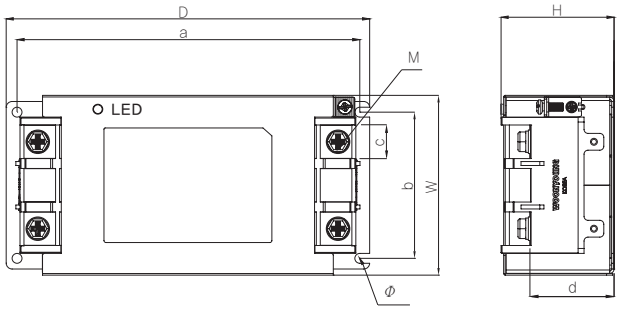
WYNFS40T2A



WYNFS150T2A



Dimension



MODEL	W	H	D	a	b	c	d	M	Ø
WYNFS40 ~ 80T2A	91	57.2	184	173.5	74	17	42.3	6	5
WYNFS100 ~ 150T2A	115	75	235.2	218	96	24	58	8	5

1Ø 250V 보급형 General Type

RoHS



Features

- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant

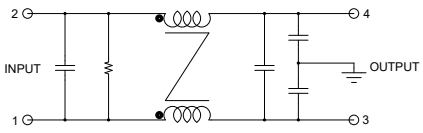
Specifications

ITEM \ MODEL	SYMBOL	WYFS60T2A	WYFS80T2A	WYFS100T2A	WYFS120T2A	WYFS150T2A	WYFS200T2A
Rated Voltage	V	250					
Rated Current	A	60	80	100	120	150	200
Frequency	Hz	50 / 60					
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)					
Insulation Resistance	MΩ	500MΩ at the 500VDC					
Leakage Current	mA	≤1.5mA at 250VAC					
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−1]					
Operating Humidity	RH	35 ~ 85%RH					
Weight	kg	1.5			2.5		

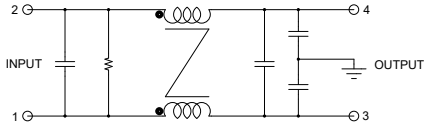
※ Derating Curve of page 519

Circuit Diagram

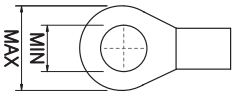
WYFS60~100T2A



WYFS120~200T2A



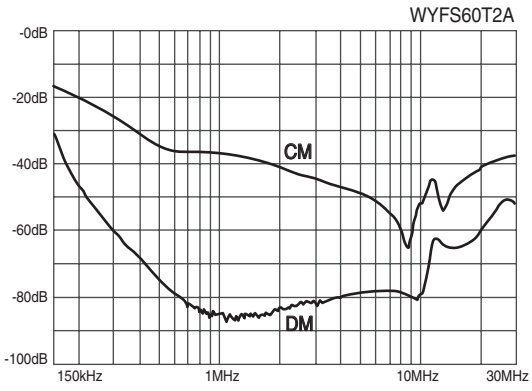
Terminal



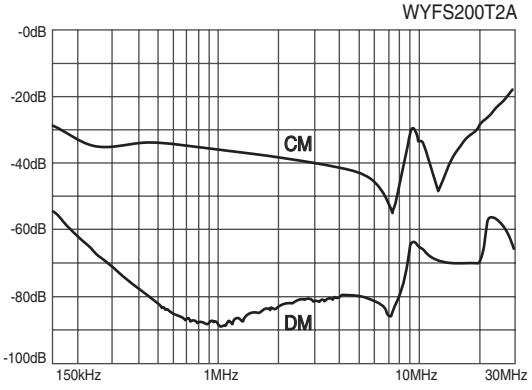
Max 14 , Min 6(60~100A)
Max 14 , Min 6(120~200A)

Characteristics

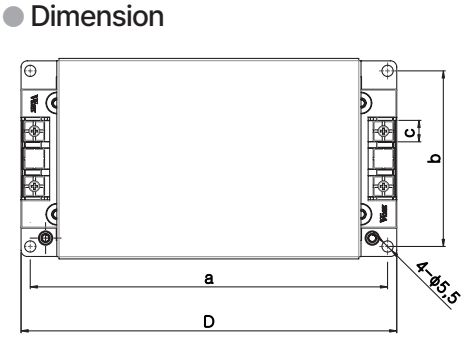
WYFS60T2A

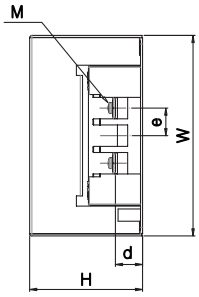


WYFS200T2A



Dimension





MODEL	W	H	D	a	b	c	d	M
WYFS60 ~ 100T2A	109	60	200	187	93.4	14.5	17.4	6
WYFS120 ~ 200T2A	115.6	75	234	219	98	14.5	17.8	6

1Ø 500V 보급형 General Type



Features

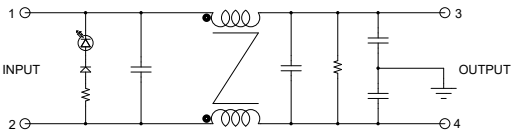
- 2 Mounting Option
  - WYF****D : Din Rail Mounting
  - WYF**** : Screw Mounting
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- KC(안전인증) : Approved by HK03001-22009B

Specifications

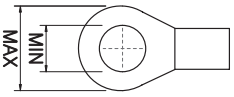
ITEM \ MODEL	SYMBOL	WYFSH06T1A(D)	WYFSH10T1A(D)	WYFSH15T1A(D)	WYFSH20T1A(D)
Rated Voltage	V	500			
Rated Current	A	6	10	15	20
Frequency	Hz	50 / 60			
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)			
Insulation Resistance	MΩ	500MΩ at the 500VDC			
Leakage Current	mA	≤2.1mA at 500VAC			
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−1]			
Operating Humidity	RH	35 ~ 85%RH			
Weight	kg	0.2			

※Derating Curve of page 519

Circuit Diagram



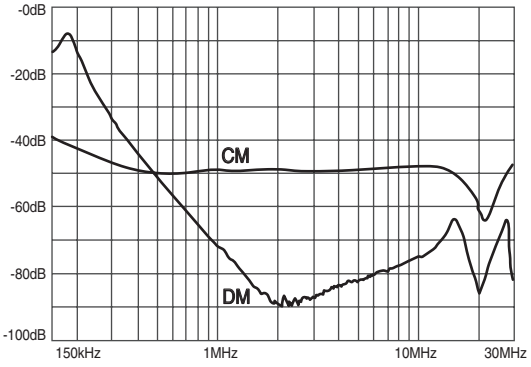
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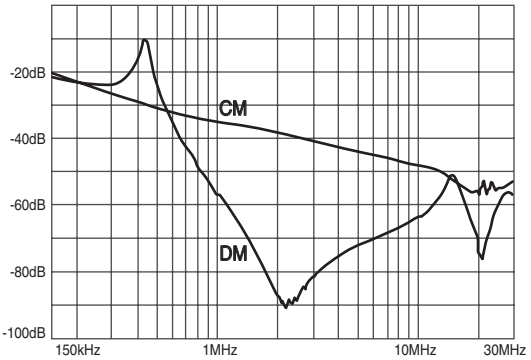
Max 12 , Min 4

Characteristics

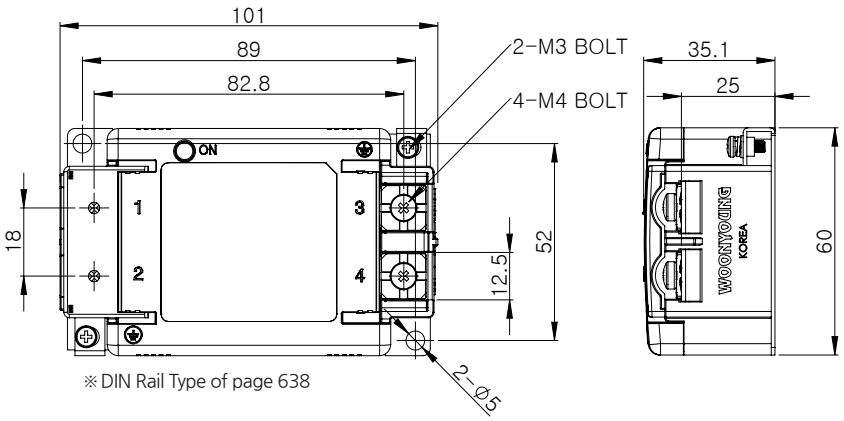
WYFSH06T1A



WYFSH20T1A



Dimension



※DIN Rail Type of page 638

1Ø DC 12V ~ 50V 보급형 General Type

CE RoHS

DC
NOISE FILTER



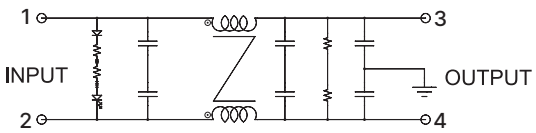
Features

- 2 Mounting Option
  - WYF****D : Din Rail Mounting
  - WYF**** : Screw Mounting
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant

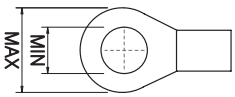
Specifications

ITEM \ MODEL	SYMBOL	WYFD06T1A(D)	WYFD10T1A(D)	WYFD15T1A(D)	WYFD20T1A(D)	WYFD30T1A(D)
Rated Voltage	V	12VDC ~ 50VDC				
Rated Current	A	6	10	15	20	30
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)				
Insulation Resistance	MΩ	DC 100MΩ at the 500Vdc				
Leakage Current	mA	≤0.8mA at the 250Vac				
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−1]				
Operating Humidity	RH	35 ~ 85%RH				
Weight	kg	0.3				

Circuit Diagram

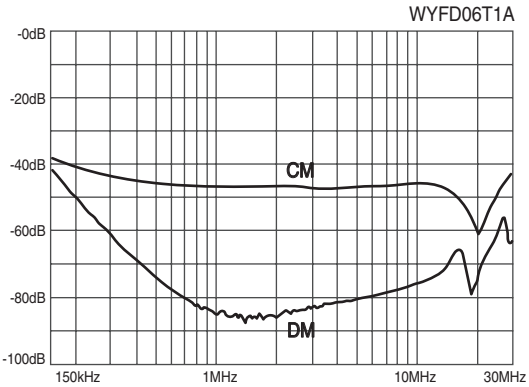


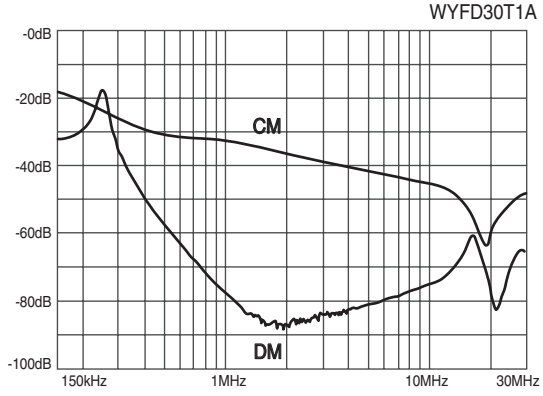
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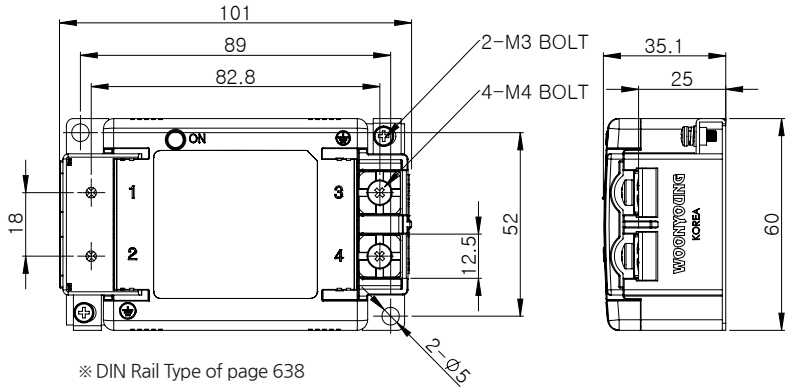
Max 12 , Min 4

Characteristics





Dimension



※ DIN Rail Type of page 638

1Ø DC 60V ~ 125V 보급형 General Type

CE RoHS

DC
NOISE FILTER



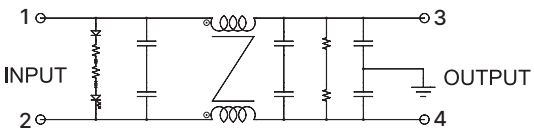
Features

- 2 Mounting Option
  - WYF****D : Din Rail Mounting
  - WYF**** : Screw Mounting
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant

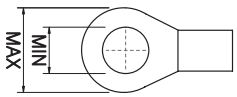
Specifications

ITEM \ MODEL	SYMBOL	WYFDH06T1A(D)	WYFDH10T1A(D)	WYFDH15T1A(D)	WYFDH20T1A(D)	WYFDH30T1A(D)
Rated Voltage	V	60VDC ~ 125VDC				
Rated Current	A	6	10	15	20	30
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)				
Insulation Resistance	MΩ	DC 100MΩ at the 500Vdc				
Leakage Current	mA	≤0.8mA at the 250Vac				
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−1]				
Operating Humidity	RH	35 ~ 85%RH				
Weight	kg	0.3				

Circuit Diagram

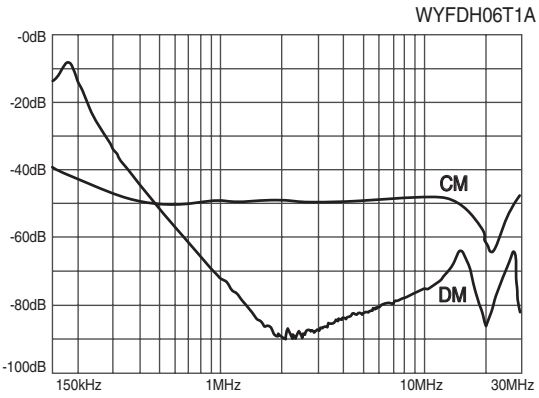


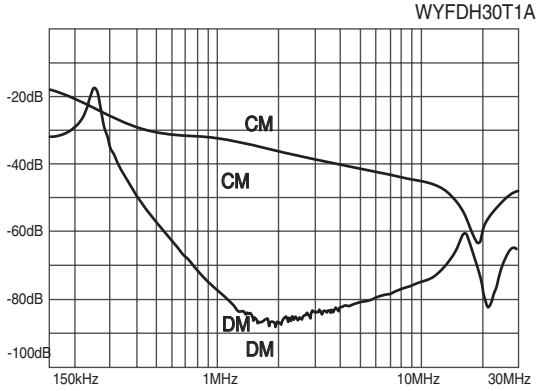
Terminal



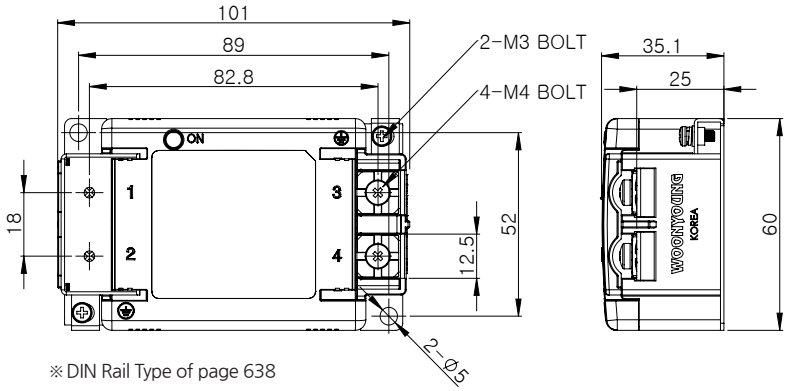
Max 12 , Min 4

Characteristics





Dimension



※DIN Rail Type of page 638

1Ø DC 150V ~ 400V 보급형

RoHS

DC
NOISE FILTER



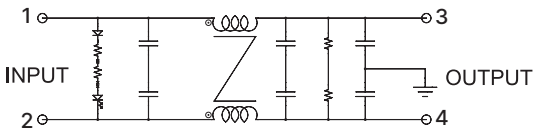
Features

- 2 Mounting Option
  - WYF****D : Din Rail Mounting
  - WYF**** : Screw Mounting
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant

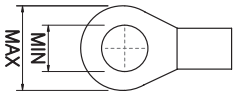
Specifications

ITEM \ MODEL	SYMBOL	WYFDU06T1A(D)	WYFDU10T1A(D)	WYFDU15T1A(D)	WYFDU20T1A(D)	WYFDU30T1A(D)
Rated Voltage	V	150VDC ~ 400VDC				
Rated Current	A	6	10	15	20	30
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)				
Insulation Resistance	MΩ	DC 100MΩ at the 500Vdc				
Leakage Current	mA	≤0.8mA at the 250Vac				
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−1]				
Operating Humidity	RH	35 ~ 85%RH				
Weight	kg	0.3				

Circuit Diagram

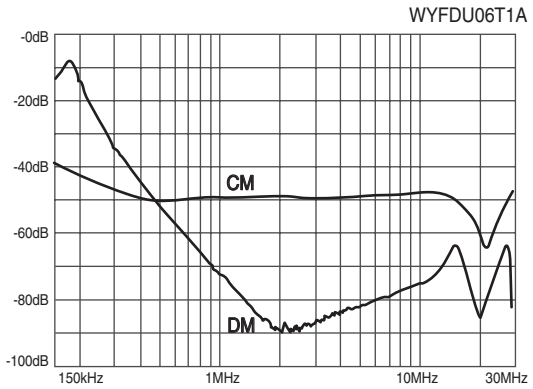


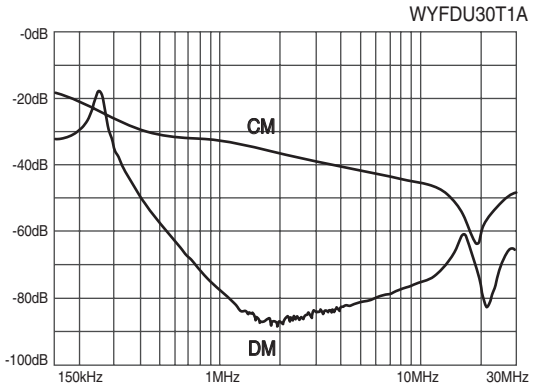
Terminal



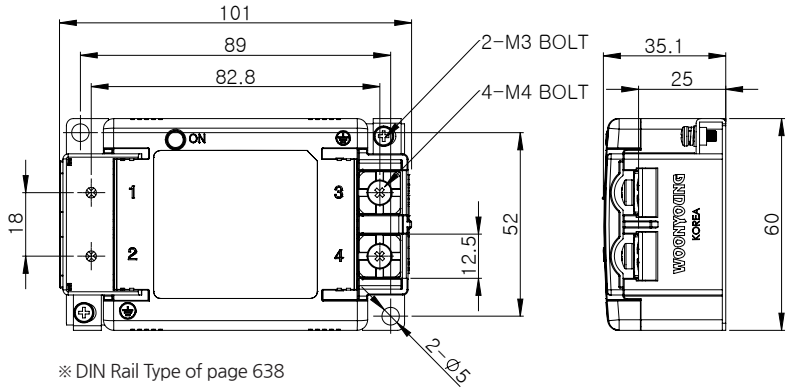
Max 12 , Min 4

Characteristics





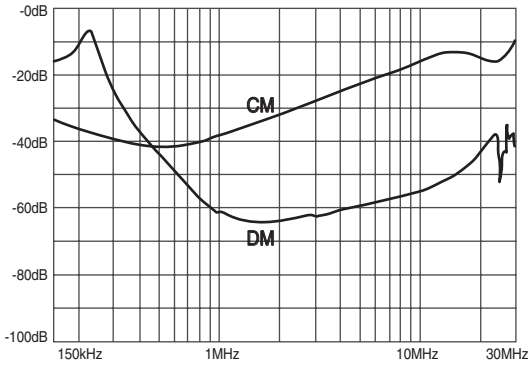
Dimension



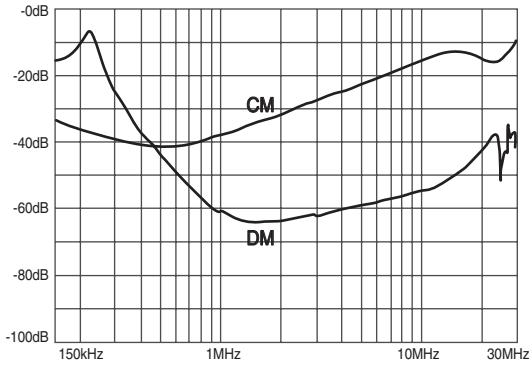
※ DIN Rail Type of page 638

1Ø 250V Characteristics

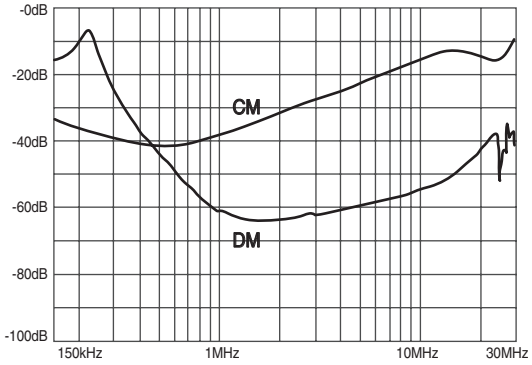
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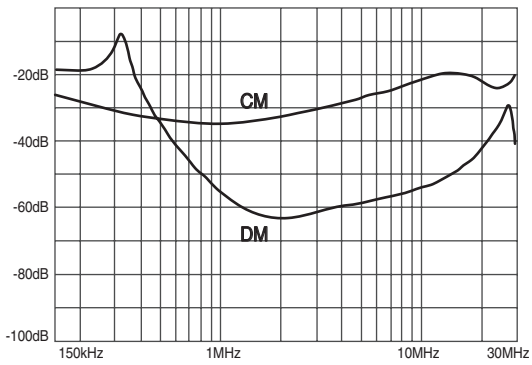
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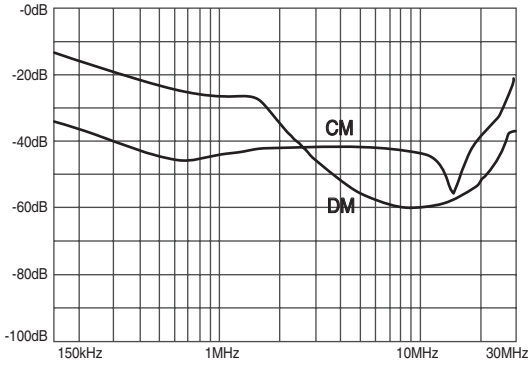
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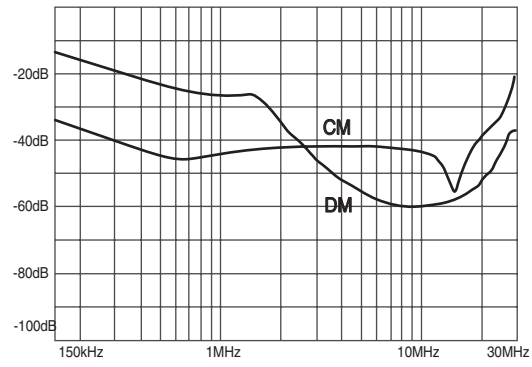
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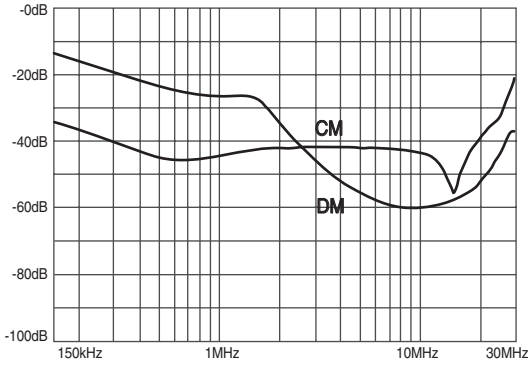
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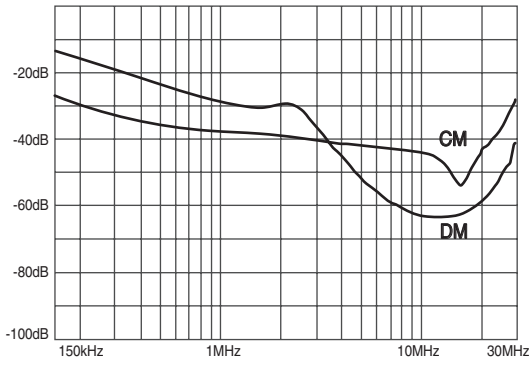
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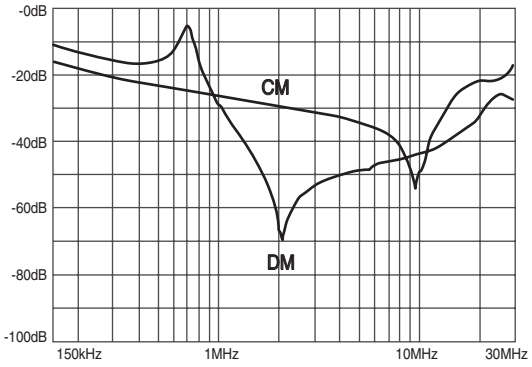
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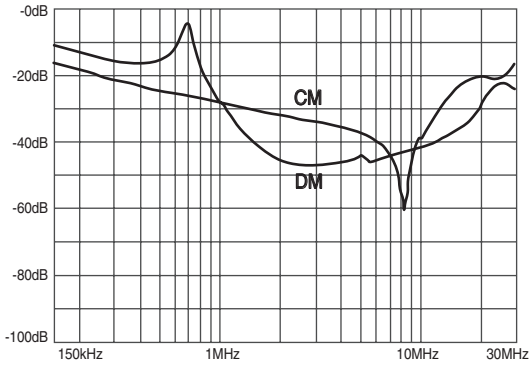
※CM : Common mode, DM : Differential mode

Characteristics

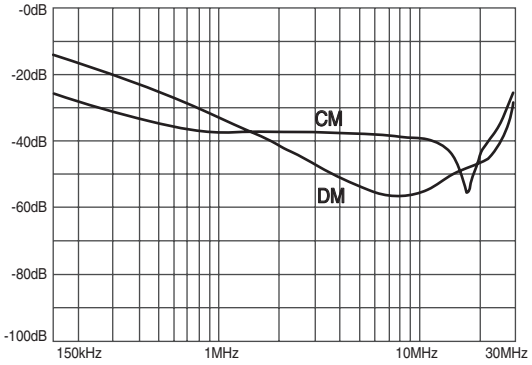
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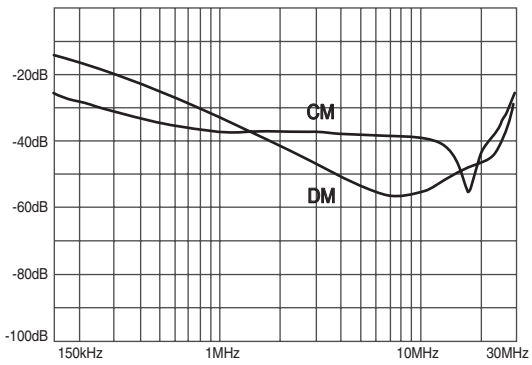
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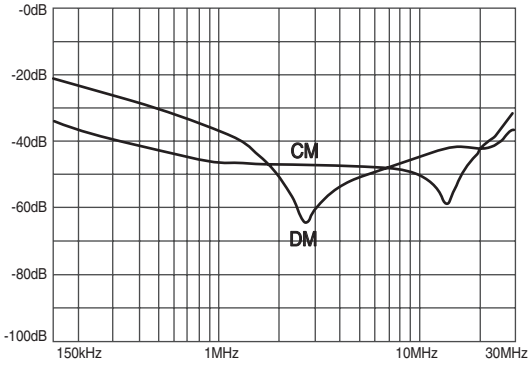
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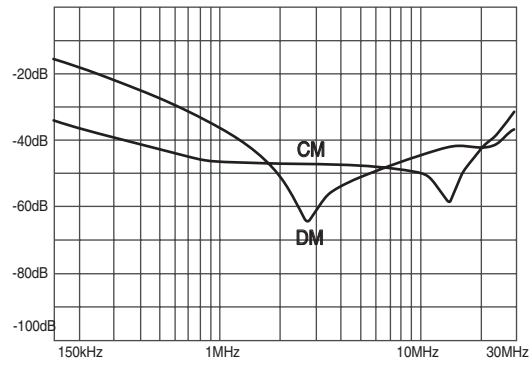
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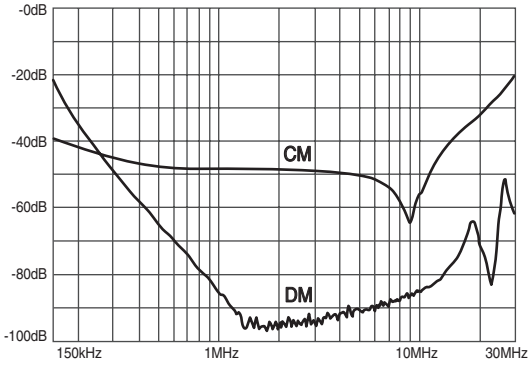
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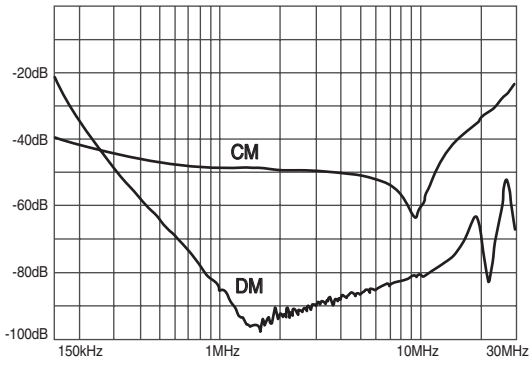
WYFS06A2



WYFS06TD



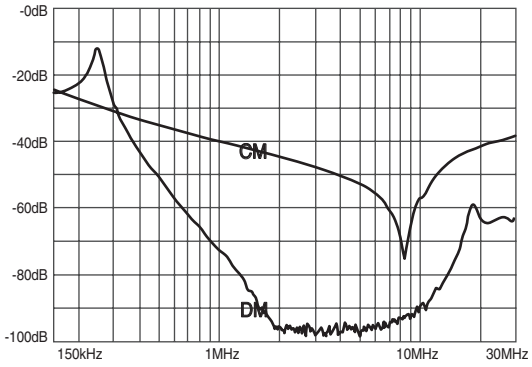
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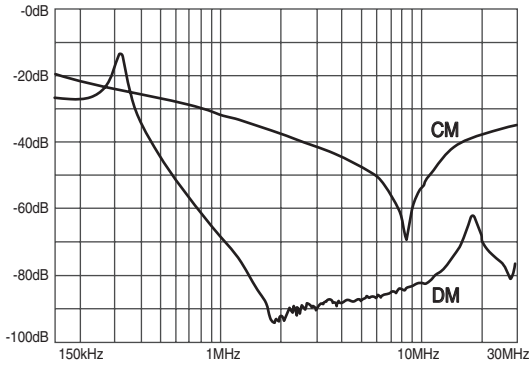
※CM : Common mode, DM : Differential mode

Characteristics

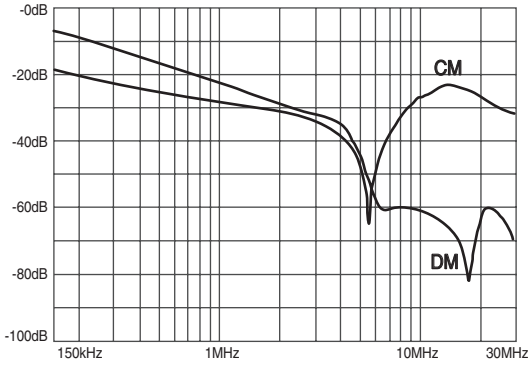
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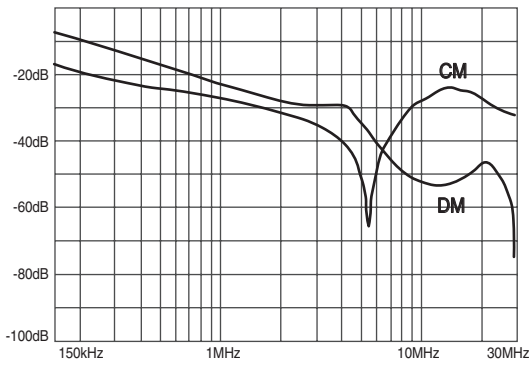
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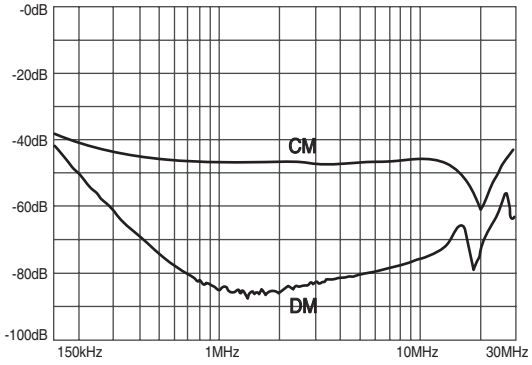
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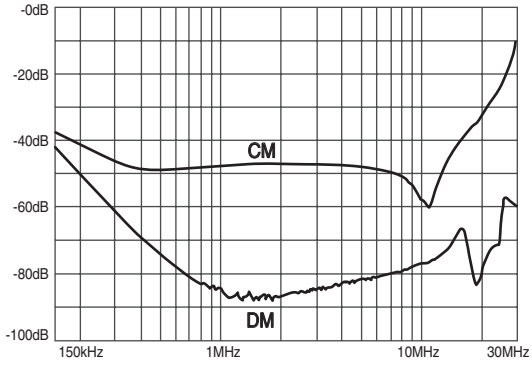
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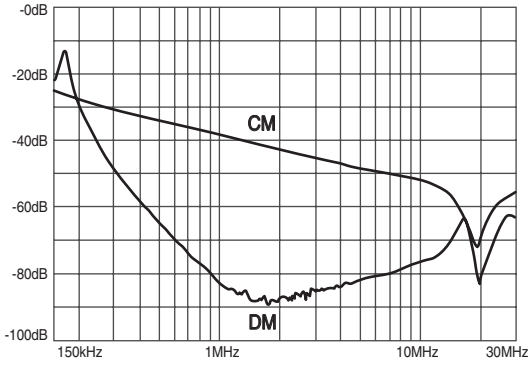
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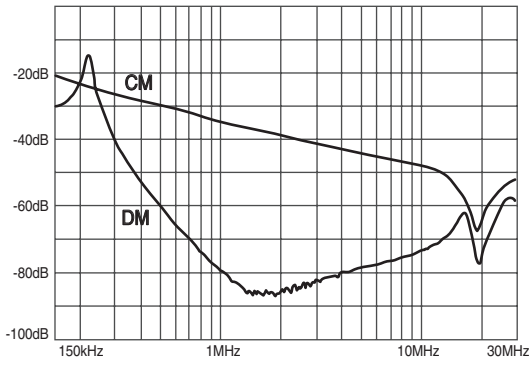
WYFS10T1A



WYFS15T1A



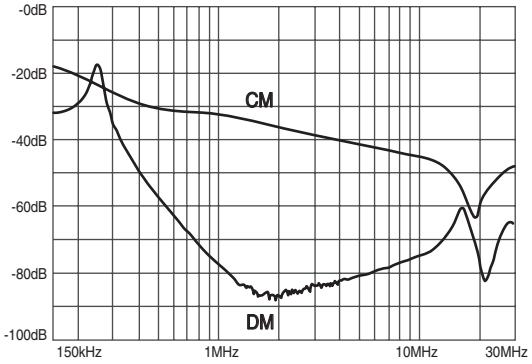
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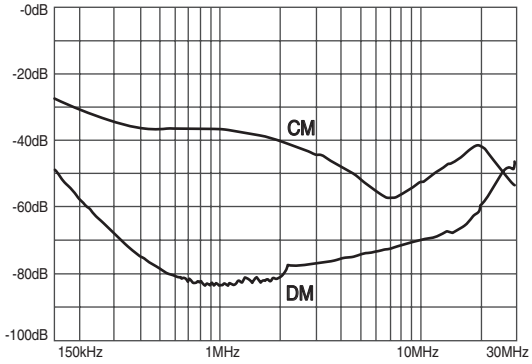
※CM : Common mode, DM : Differential mode

Characteristics

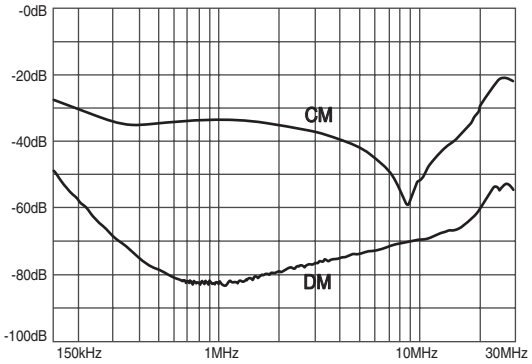
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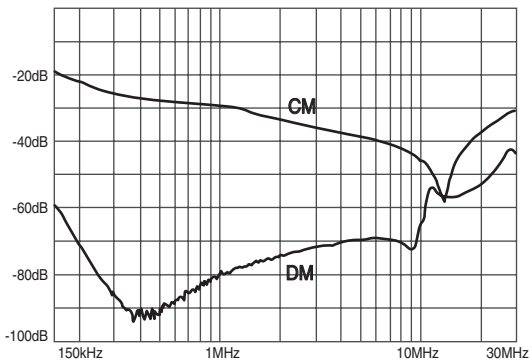
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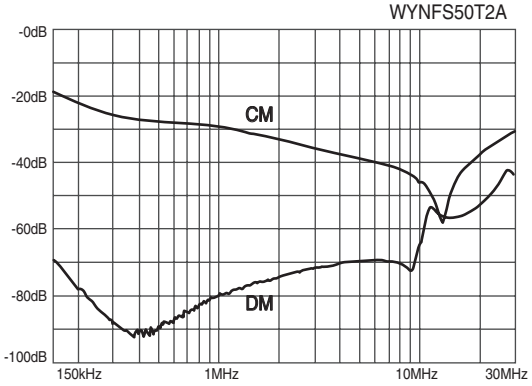
WYFS50T1A



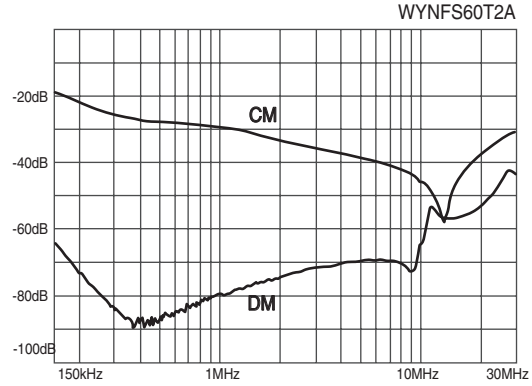
WYNFS40T2A



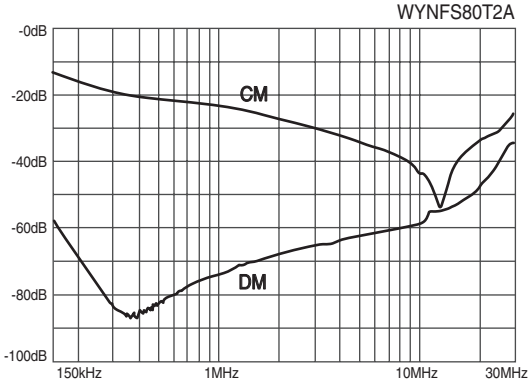
WYNFS50T2A



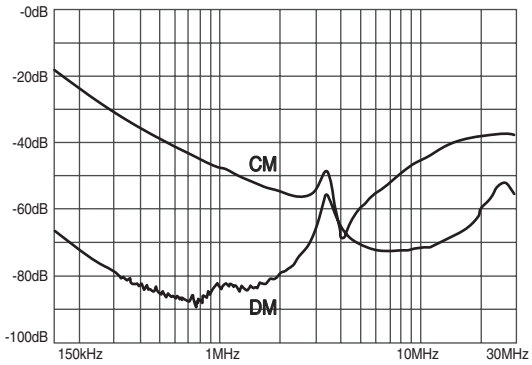
WYNFS60T2A



WYNFS80T2A



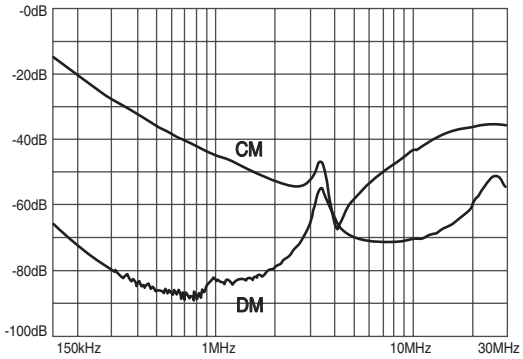
WYNFS100T2A



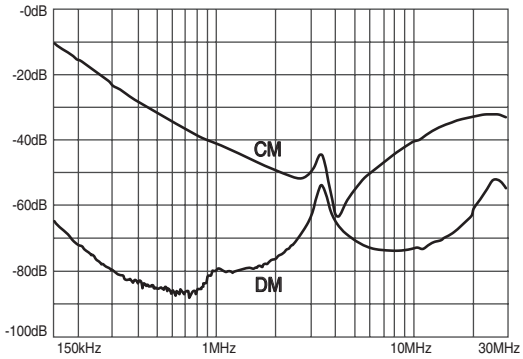
※CM : Common mode, DM : Differential mode

Characteristics

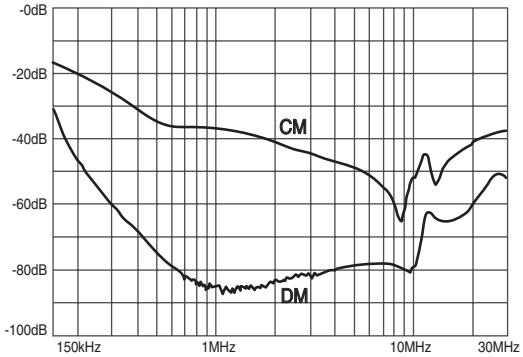
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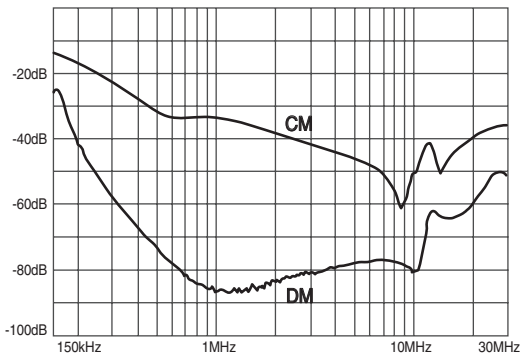
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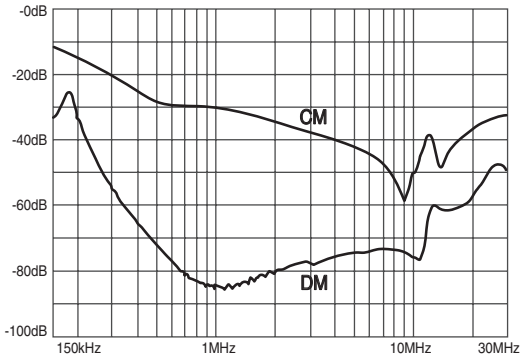
WYFS60T2A



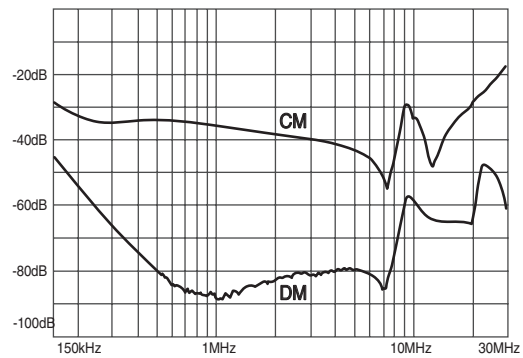
WYFS80T2A



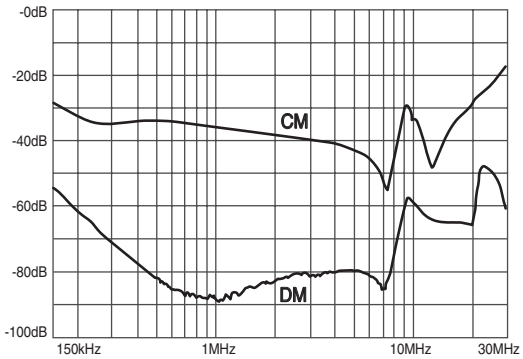
WYFS100T2A



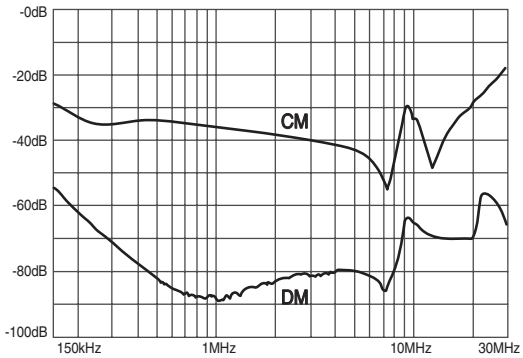
WYFS120T2A



WYFS150T2A



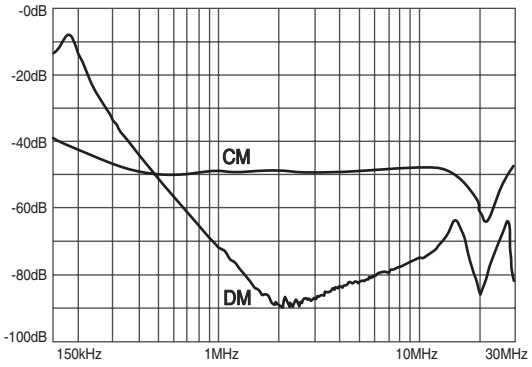
WYFS200T2A



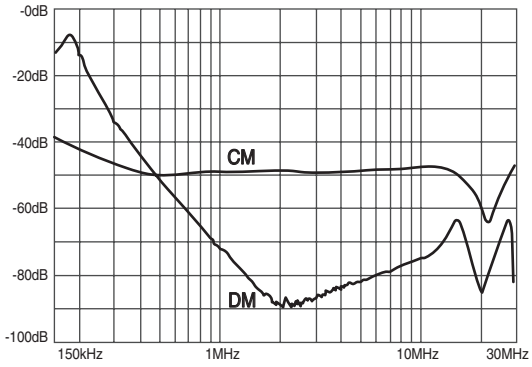
※CM : Common mode, DM : Differential mode

Characteristics

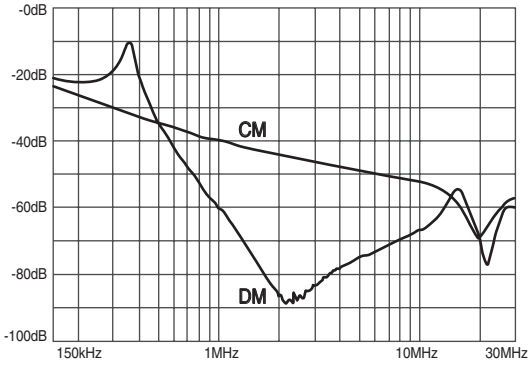
WYFSH06T1A



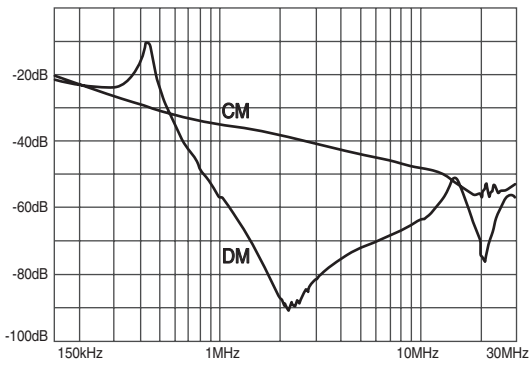
WYFSH10T1A



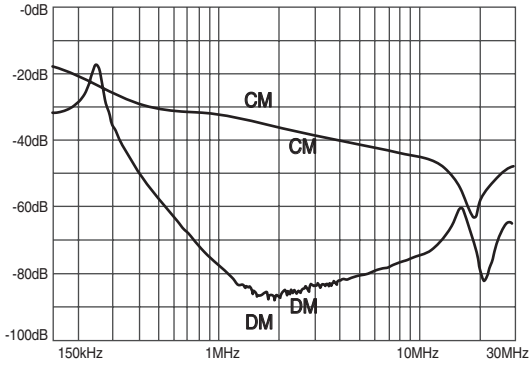
WYFSH15T1A



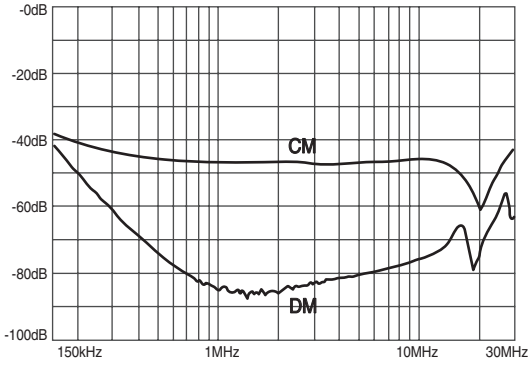
WYFSH20T1A



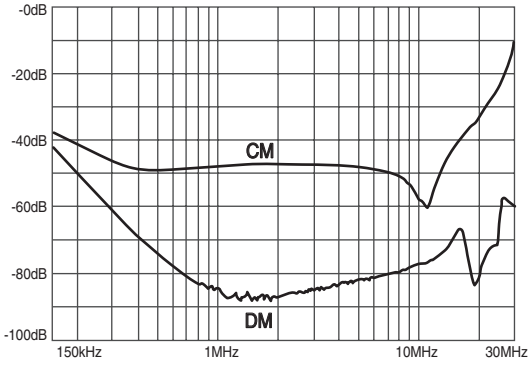
WYFSH30T1A



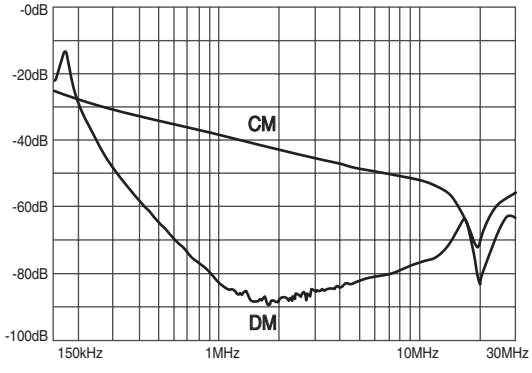
WYFD06T1A



WYFD10T1A



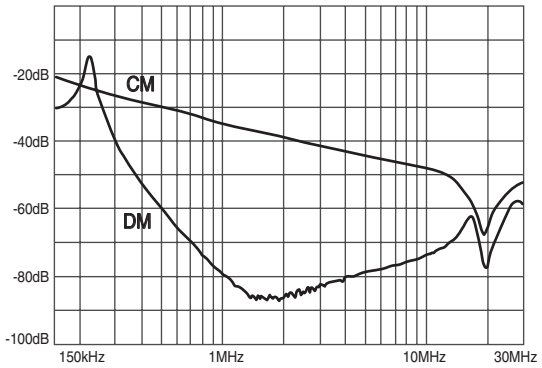
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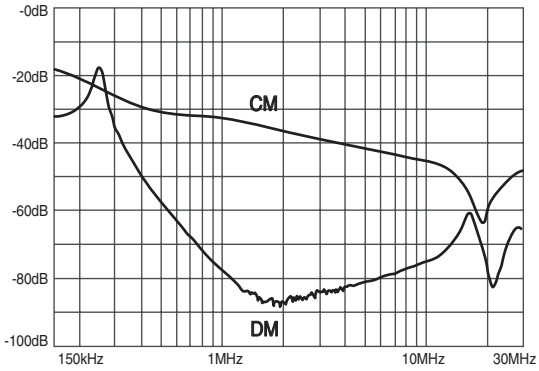
※CM : Common mode, DM : Differential mode

Characteristics

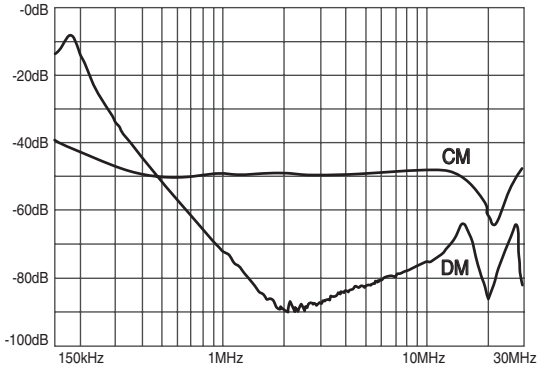
WYFD20T1A



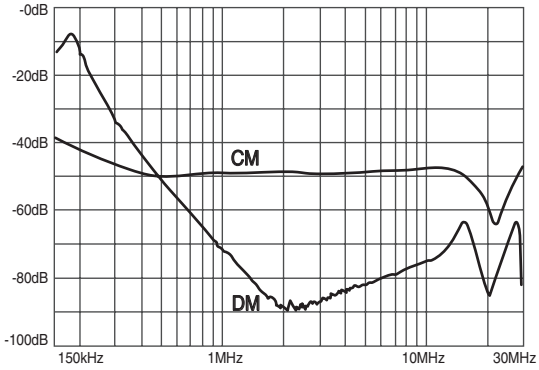
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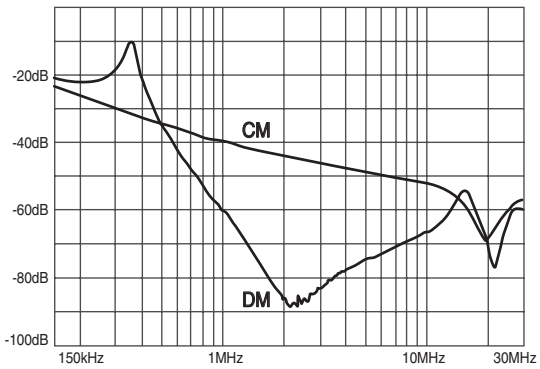
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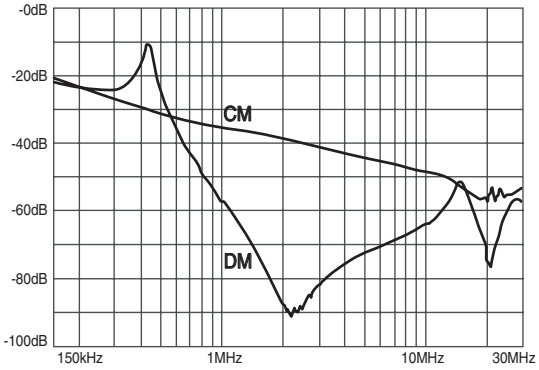
WYFDH10T1A



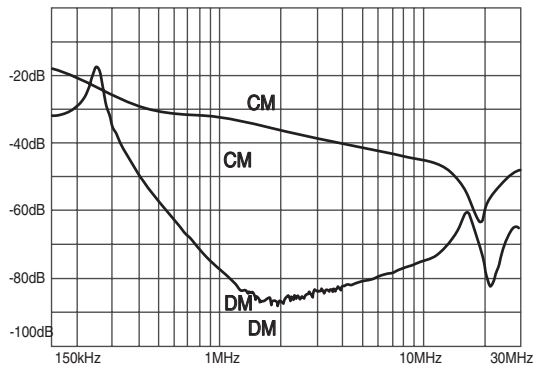
WYFDH15T1A



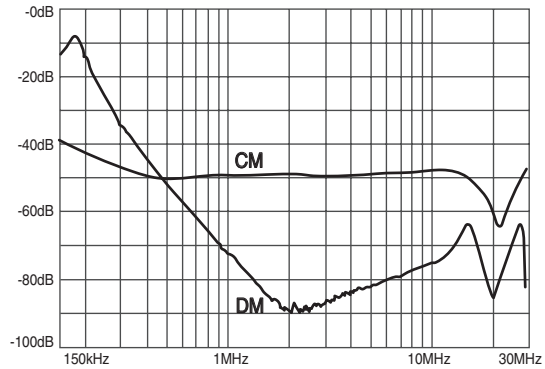
WYFDH20T1A



WYFDH30T1A

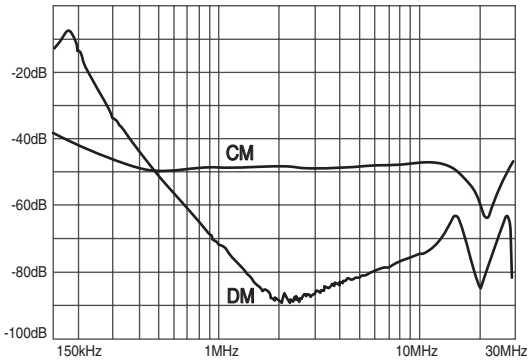


WYFDU06T1A

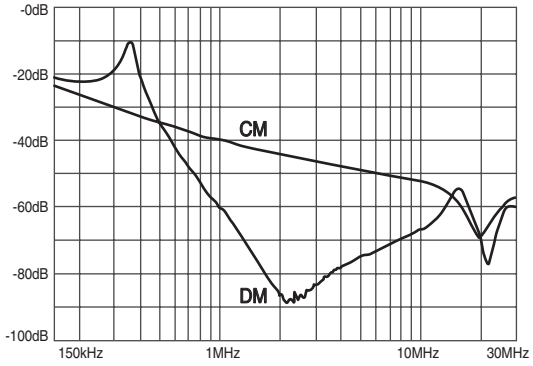


Characteristics

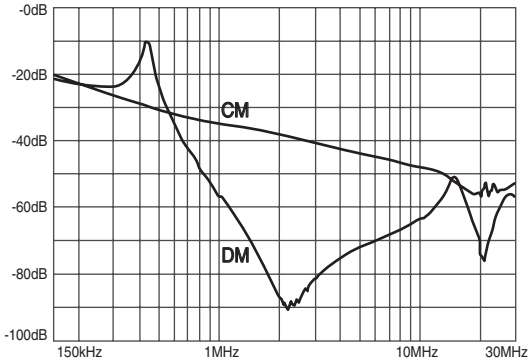
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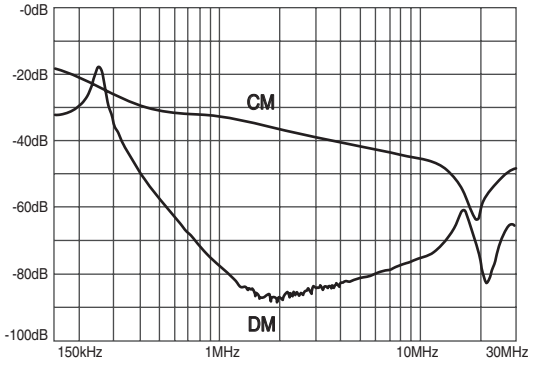
WYFDU15T1A



WYFDU20T1A



WYFDU30T1A



※CM : Common mode, DM : Differential mode

노이즈필터
Noise Filter

3Ø 보급형(General Type)







Terminal Type
- 3Ø 250V 5~1200A
- 3Ø 500V 5~1200A

3Ø 250V 보급형 General Type

RoHS

UL 인증



Features

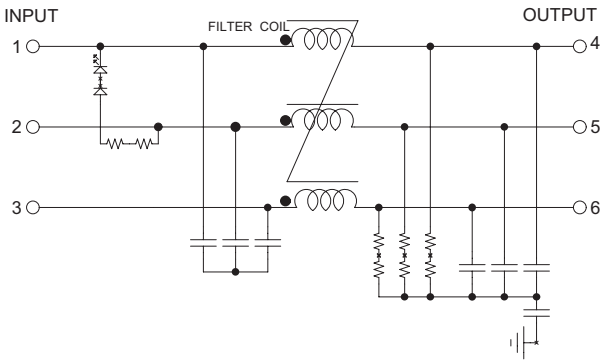
- 2 Mounting Option
  - WYF****D : Din Rail Mounting
  - WYF**** : Screw Mounting
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- KC(안전인증) Approved by HK03001-22015B
- Inverter Output Type : Model Type"C" (WYFT05T1C)
- UL Cer. No : E521164

Specifications

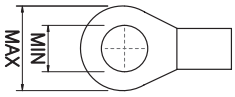
ITEM \ MODEL	SYMBOL	WYFT05T1A(D) WYFT05T1C(D)	WYFT10T1A(D) WYFT10T1C(D)	WYFT15T1A(D) WYFT15T1C(D)	WYFT20T1A(D) WYFT20T1C(D)	WYFT30T1A(D) WYFT30T1C(D)
Rated Voltage	V	250				
Rated Current	A	5	10	15	20	30
Frequency	Hz	50 / 60				
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)				
Insulation Resistance	MΩ	500				
Leakage Current	mA	≤2.5mA at the 250Vac				
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−2]				
Operating Humidity	RH	35 ~ 85%RH				
Weight	kg	0.5				

※ Derating Curve of page 519

Circuit Diagram

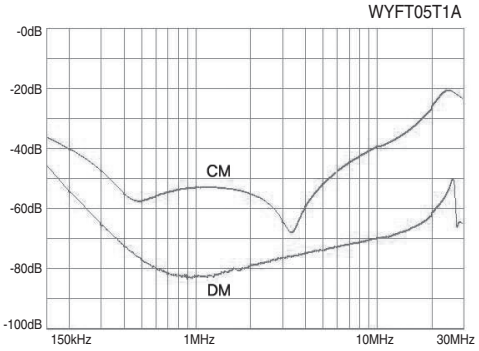


Terminal

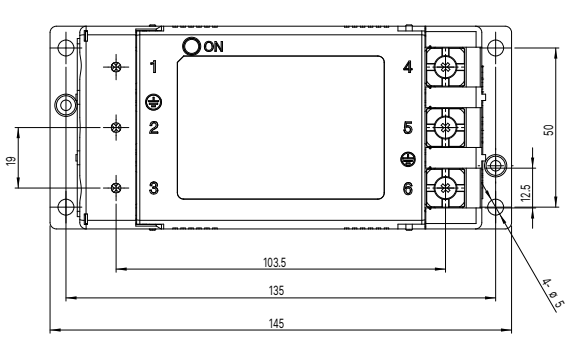


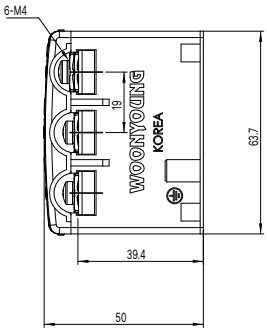
Max 12 , Min 4

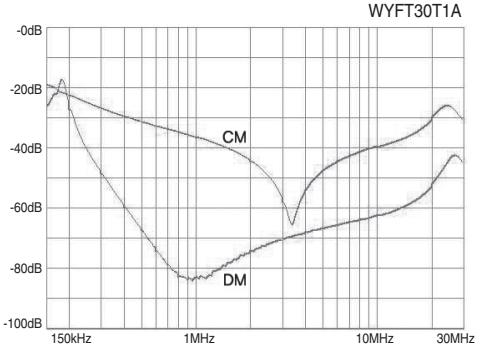
Characteristics



Dimension







※ DIN Rail Type of page 638

N Series 3Ø 250V 보급형 General Type

RoHS

UL 인증



Features

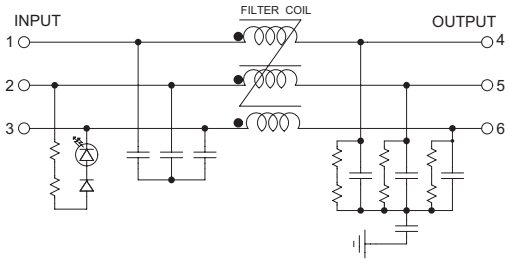
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYNFT40T2C)
- KC(안전인증) : Approved by HK03001-23019B
- UL Cer. No : E521164

Specifications

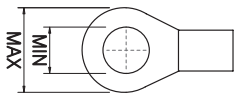
ITEM \ MODEL	SYMBOL	WYNFT40T2A WYNFT40T2C	WYNFT50T2A WYNFT50T2C	WYNFT60T2A WYNFT60T2C	WYNFT80T2A WYNFT80T2C	WYNFT100T2A WYNFT100T2C	WYNFT120T2A WYNFT120T2C	WYNFT150T2A WYNFT150T2C	WYNFT200T2A WYNFT200T2C	WYNFT250T2A WYNFT250T2C
Rated Voltage	V	250								
Rated Current	A	40A	50A	60A	80A	100A	120A	150A	200A	250A
Frequency	Hz	50 / 60								
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)								
Insulation Resistance	MΩ	DC 100MΩ at the 500Vdc								
Leakage Current	mA	≤2.5mA at the 250Vac					≤16mA at the 250Vac			
Operating Temperature	°C	-25°C ~ +100°C [Refer to Derating Curve TYPE-2]								
Operating Humidity	RH	35 ~ 85%RH								
Weight	kg	1.2		2.2			5.0			

※Derating Curve of page 519

Circuit Diagram

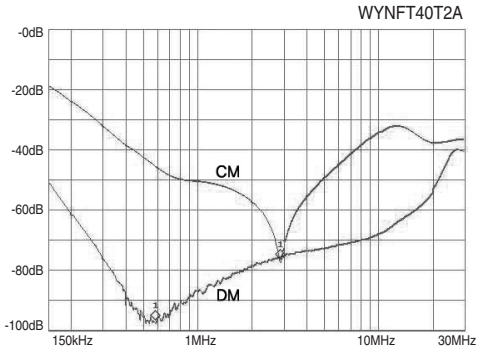


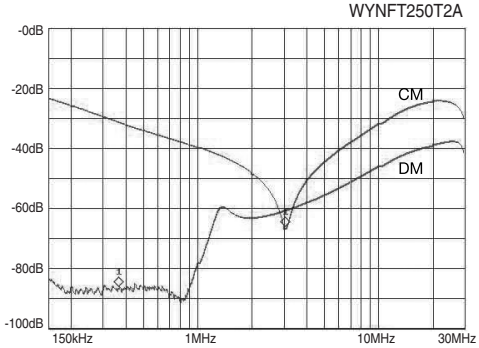
Terminal



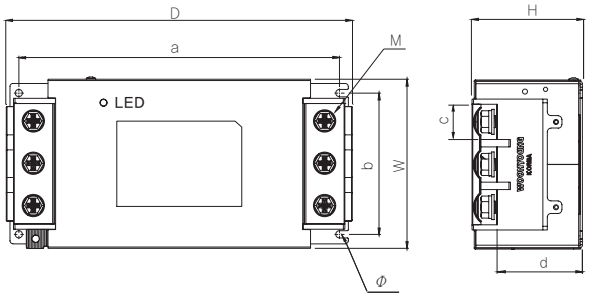
Max 16, Min 6 (40~50A)
Max 23, Min 8 (60~100A)
Max 28, Min 8 (120~250A)

Characteristics





Dimension



MODEL	W	H	D	a	b	c	d	M	Ø
WYNFT40 ~ 50T2A	91	57.2	184	173.5	74	17	42.3	6	5
WYNFT60 ~ 100T2A	115	75	235.2	218	96	24	58	8	5
WYNFT120 ~ 250T2A	157.2	100.1	347.5	316	130	28.5	68.6	8	6.5

3Ø 250V 보급형 General Type

RoHS



Features

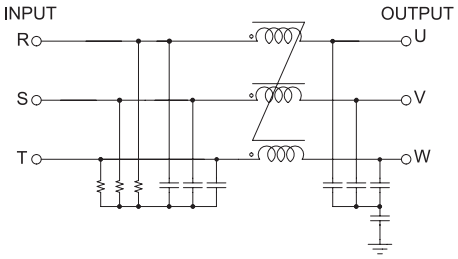
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFT40T2C)
- KC(안전인증) Approved by HK03001-22015B

Specifications

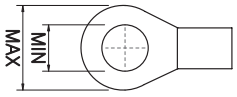
ITEM \ MODEL	SYMBOL	WYFT40T2A WYFT40T2C	WYFT50T2A WYFT50T2C	WYFT60T2A WYFT60T2C	WYFT80T2A WYFT80T2C	WYFT100T2A WYFT100T2C	WYFT120T2A WYFT120T2C	WYFT150T2A WYFT150T2C	WYFT200T2A WYFT200T2C	WYFT250T2A WYFT250T2C
Rated Voltage	V	250								
Rated Current	A	40	50	60	80	100	120	150	200	250
Frequency	Hz	50 / 60								
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)								
Insulation Resistance	MΩ	500								
Leakage Current	mA	9								
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−2]								
Operating Humidity	RH	35 ~ 85%RH								
Weight	kg	1.0		2.5			4.5		5.0	

※ Derating Curve of page 519

Circuit Diagram

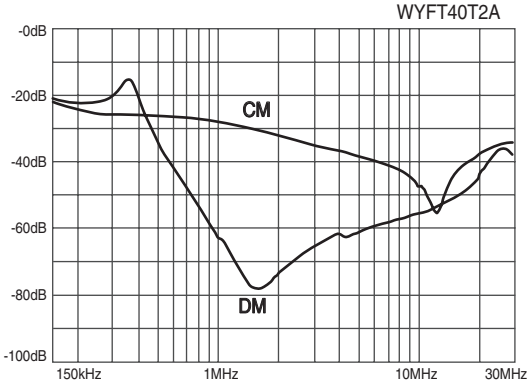


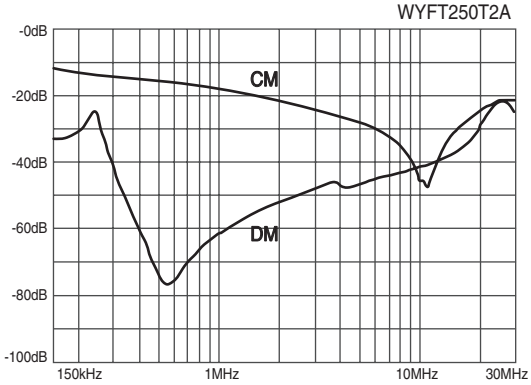
Terminal



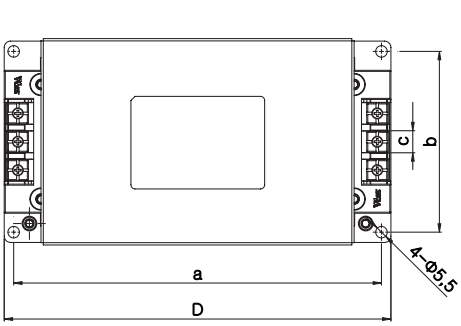
Max 10, Min 4(40~50A)
Max 14, Min 6(60~100A)
Max 22, Min 8(120~150A)
Max 25, Min 8(200~250A)

Characteristics





Dimension



MODEL	W	H	D	a	b	c	d	e	M
WYFT40 ~ 50T2A	98	55	184	175	86	10.5	13	13.5	M4
WYFT60 ~ 100T2A	116	75	234	219	98	15	18	27.5	M6
WYFT120 ~ 150T2A	170	80	300	282	145	23	20	35	M8
WYFT200 ~ 250T2A	170	90	312	282	145	26	23	38.5	M8

3Ø 250V 보급형 Bus-bar형 General Type

CE RoHS



Features

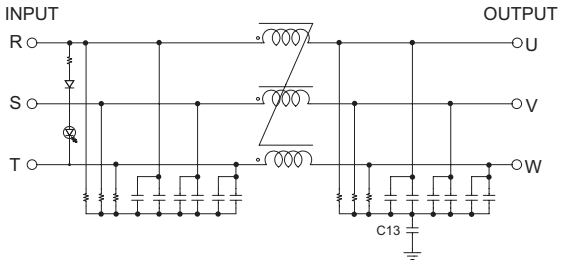
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFT300T2C)

Specifications

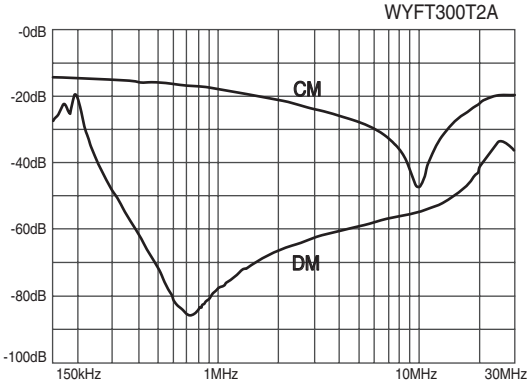
ITEM \ MODEL	SYMBOL	WYFT300T2A WYFT300T2C	WYFT400T2A WYFT400T2C
Rated Voltage	V	250	
Rated Current	A	300	400
Frequency	Hz	50 / 60	
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)	
Insulation Resistance	MΩ	500	
Leakage Current	mA	9	
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−2]	
Operating Humidity	RH	35 ~ 85%RH	
Weight	kg	9.5	

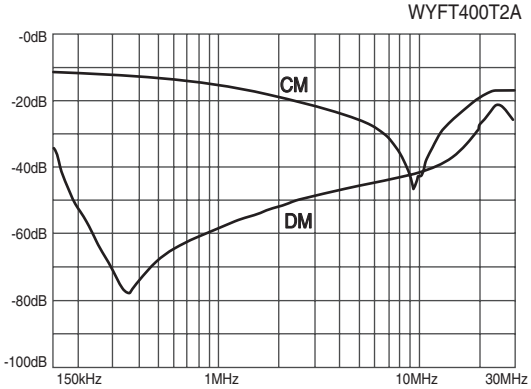
※Derating Curve of page 519

Circuit Diagram

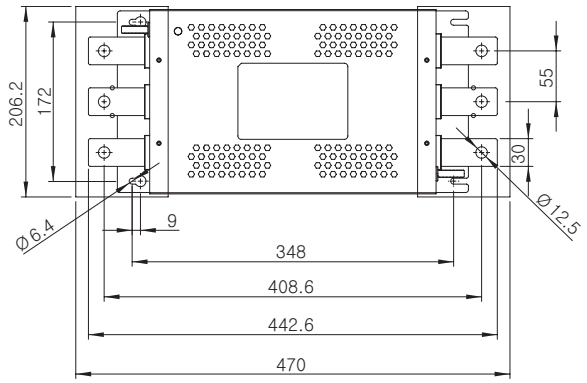


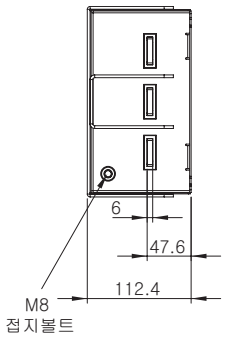
Characteristics





Dimension





3Ø 250V 보급형 Bus-bar형 General Type

CE RoHS



Features

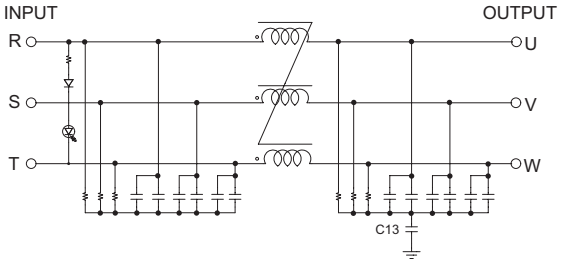
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFT500T2C)

Specifications

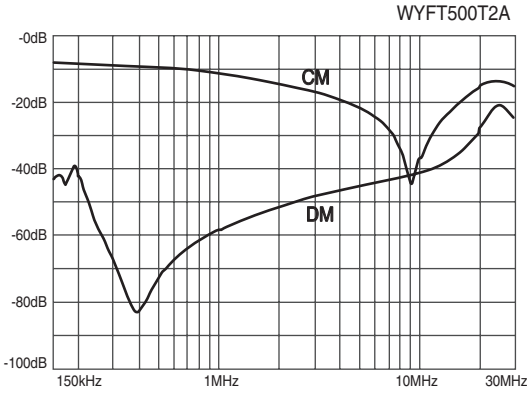
ITEM \ MODEL	SYMBOL	WYFT500T2A WYFT500T2C
Rated Voltage	V	250
Rated Current	A	500
Frequency	Hz	50 / 60
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)
Insulation Resistance	MΩ	300
Leakage Current	mA	9
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−2]
Operating Humidity	RH	35 ~ 85%RH
Weight	kg	9.5

※Derating Curve of page 519

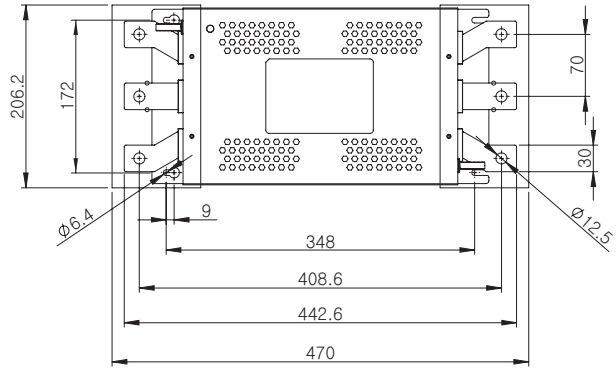
Circuit Diagram

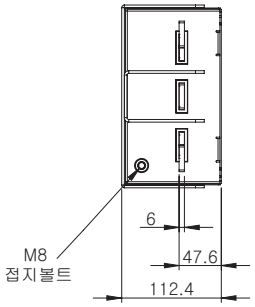


Characteristics



Dimension





3Ø 250V 보급형 Bus-bar형 General Type

CE RoHS



Features

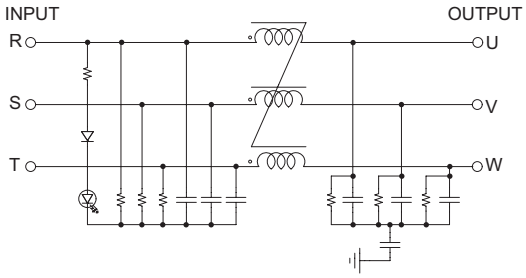
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFT600T2C)

Specifications

ITEM \ MODEL	SYMBOL	WYFT600T2A WYFT600T2C	WYFT800T2A WYFT800T2C	WYFT1000T2A WYFT1000T2C	WYFT1200T2A WYFT1200T2C
Rated Voltage	V	250			
Rated Current	A	600	800	1000	1200
Frequency	Hz	50 / 60			
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)			
Insulation Resistance	MΩ	500			
Leakage Current	mA	9			
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−2]			
Operating Humidity	RH	35 ~ 85%RH			
Weight	kg	12			

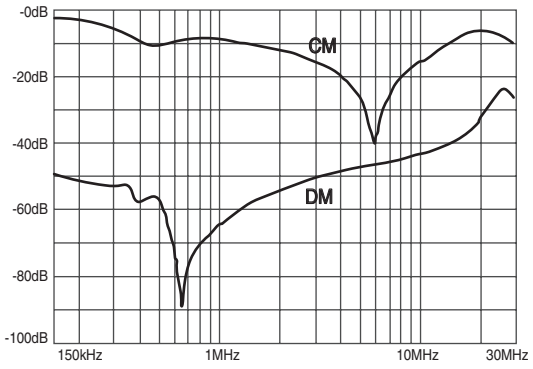
※ Derating Curve of page 519

Circuit Diagram

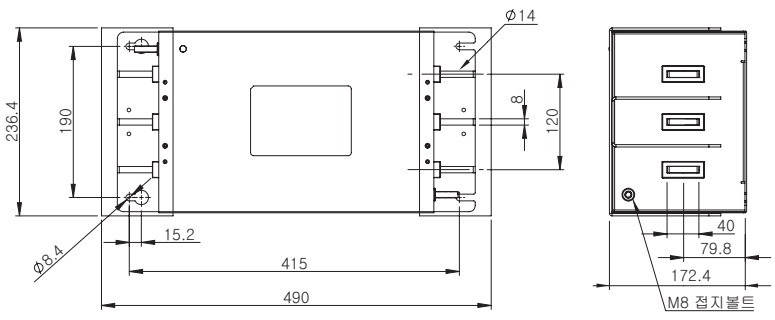


Characteristics

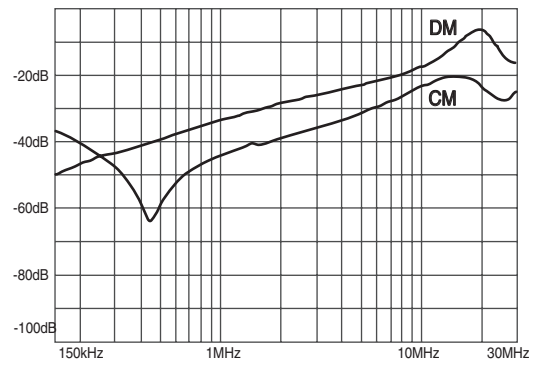
WYFT600T2A



Dimension



WYFT1200T2A



3Ø 500V 보급형 General Type

UL 인증



Features

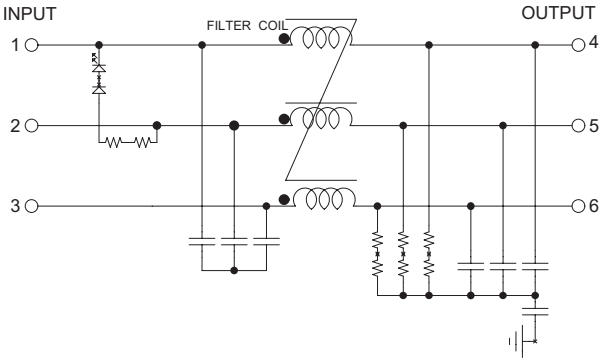
- 2 Mounting Option
  - WYF****D : Din Rail Mounting
  - WYF**** : Screw Mounting
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- KC(안전인증) Approved by HK03001-19008A (Without "C" Type)
- Inverter Output Type : Model Type"C" (WYFTH05T1C)
- UL Cer. No : E521164

Specifications

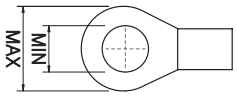
ITEM \ MODEL	SYMBOL	WYFTH05T1A (D) WYFTH05T1C (D)	WYFTH10T1A (D) WYFTH10T1C (D)	WYFTH15T1A (D) WYFTH15T1C (D)	WYFTH20T1A (D) WYFTH20T1C (D)	WYFTH30T1A (D) WYFTH30T1C (D)
Rated Voltage	V	500				
Rated Current	A	5	10	15	20	30
Frequency	Hz	50 / 60				
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)				
Insulation Resistance	MΩ	DC 100MΩ at the 500Vdc				
Leakage Current	mA	≤4.0				
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−2]				
Operating Humidity	RH	35 ~ 85%RH				
Weight	kg	0.5				

※ Derating Curve of page 519

Circuit Diagram

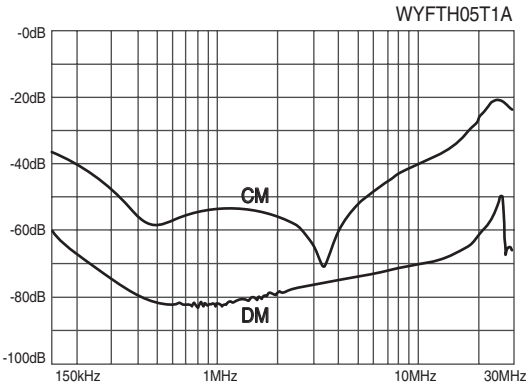


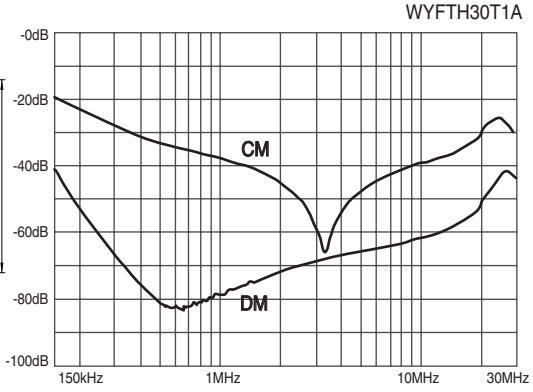
Terminal



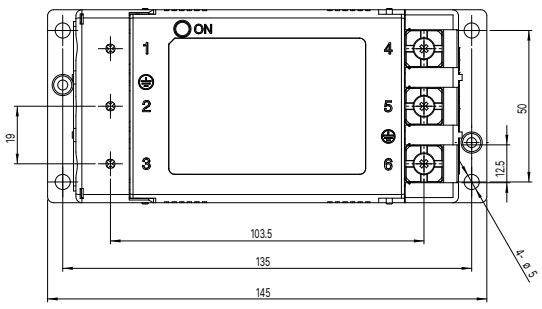
Max 12, Min 4

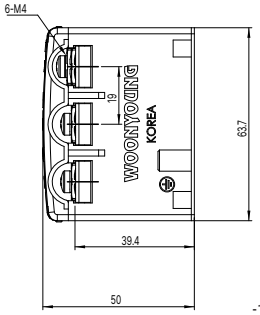
Characteristics





Dimension





※ DIN Rail Type of page 638

N Series 3Ø 500V 보급형 General Type

RoHS

UL 인증



Features

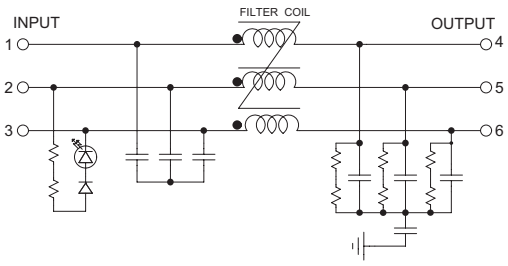
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYNFTH40T2C)
- KC(안전인증) : Approved by HK03001-23022B
- UL Cer. No : E521164

Specifications

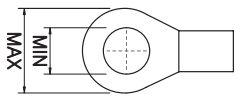
ITEM \ MODEL	SYMBOL	WYNFTH40T2A WYNFTH40T2C	WYNFTH50T2A WYNFTH50T2C	WYNFTH60T2A WYNFTH60T2C	WYNFTH80T2A WYNFTH80T2C	WYNFTH100T2A WYNFTH100T2C	WYNFTH120T2A WYNFTH120T2C	WYNFTH150T2A WYNFTH150T2C	WYNFTH200T2A WYNFTH200T2C	WYNFTH250T2A WYNFTH250T2C
Rated Voltage	V	500Vac								
Rated Current	A	40A	50A	60A	80A	100A	120A	150A	200A	250A
Frequency	Hz	50 / 60								
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)								
Insulation Resistance	MΩ	DC 100MΩ at the 500Vdc								
Leakage Current	mA	≤5mA at the 500Vac					≤26mA at the 500Vac			
Operating Temperature	°C	-25°C ~ +100°C [Refer to Derating Curve TYPE-2]								
Operating Humidity	RH	35 ~ 85%RH								
Weight	kg	1.2		2.2			2.7			

※ Derating Curve of page 519

Circuit Diagram



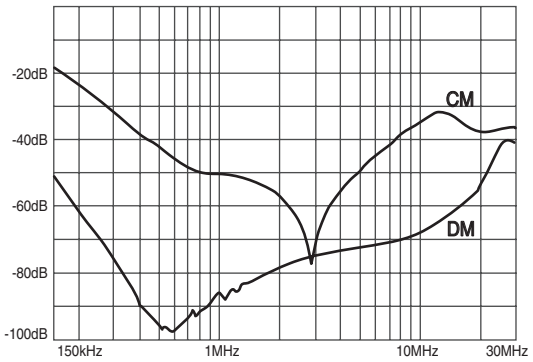
Terminal



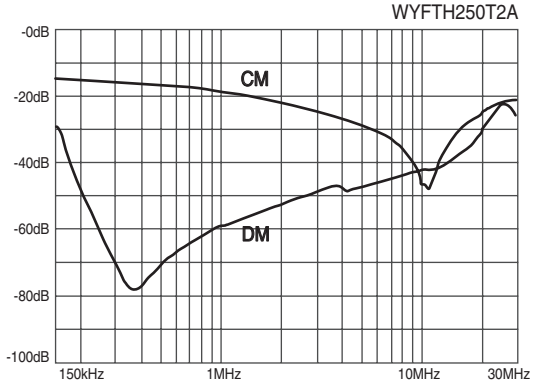
Max 16, Min 6 (40~50A)
Max 23, Min 8 (60~100A)
Max 28, Min 8 (120~250A)

Characteristics

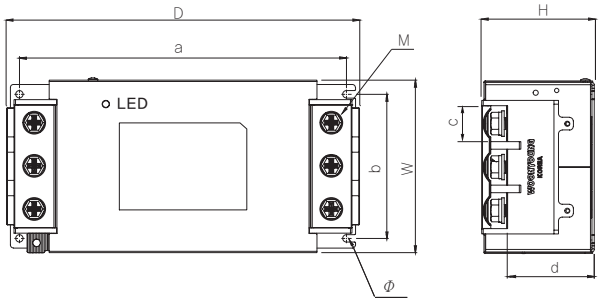
WYNFTH40T2A



WYFTH250T2A



Dimension



MODEL	W	H	D	a	b	c	d	M	Ø
WYNFTH40 ~ 50T2A	91	57.2	184	173.5	74	17	42.3	6	5
WYNFTH60 ~ 100T2A	115	75	235.2	218	96	24	58	8	5
WYNFTH120 ~ 250T2A	157.2	100.1	347.5	316	130	28.5	68.6	8	6.5

3Ø 500V 보급형 General Type

RoHS



Features

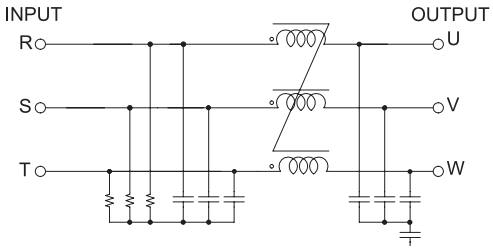
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFTH40T2C)
- WYFTH120T2A ~ WYFTH250T2A
  : KC(HH03009-10001D) (Without "C" Type)

Specifications

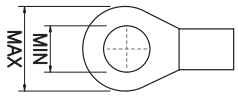
ITEM \ MODEL	SYMBOL	WYFTH40T2A WYFTH40T2C	WYFTH50T2A WYFTH50T2C	WYFTH60T2A WYFTH60T2C	WYFTH80T2A WYFTH80T2C	WYFTH100T2A WYFTH100T2C	WYFTH120T2A WYFTH120T2C	WYFTH150T2A WYFTH150T2C	WYFTH200T2A WYFTH200T2C	WYFTH250T2A WYFTH250T2C
Rated Voltage	V	500								
Rated Current	A	40	50	60	80	100	120	150	200	250
Frequency	Hz	50 / 60								
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)								
Insulation Resistance	MΩ	500								
Leakage Current	mA	18								
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−2]								
Operating Humidity	RH	35 ~ 85%RH								
Weight	kg	1.0		2.5			4.5		5.0	

※ Derating Curve of page 519

Circuit Diagram

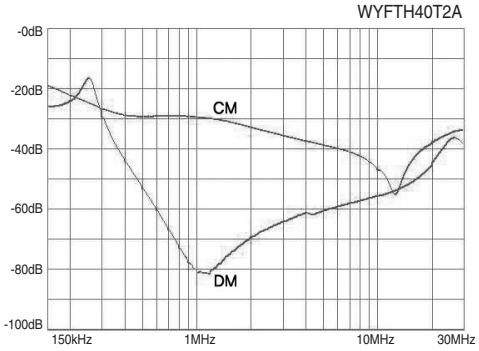


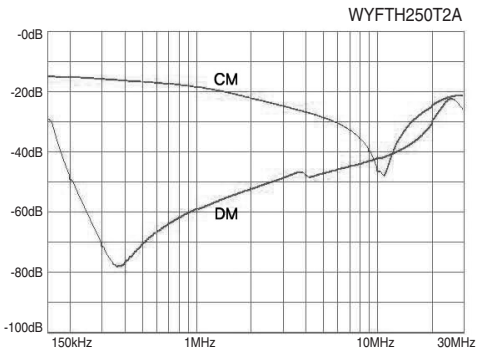
Terminal



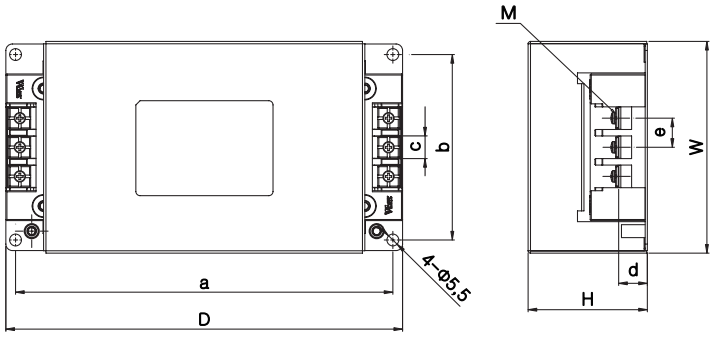
Max 10, Min 4(40~50A)
Max 14, Min 6(60~100A)
Max 22, Min 8(120~150A)
Max 25, Min 8(200~250A)

Characteristics





Dimension



MODEL	W	H	D	a	b	c	d	e	M	
WYFT120 ~ 150T2A	170	80	300	282	145	23	20	35	M8	
WYFT200 ~ 250T2A	170	90	312	282	145	26	23	38.5	M8	

3Ø 500V 보급형 Bus-bar형 General Type

RoHS



Features

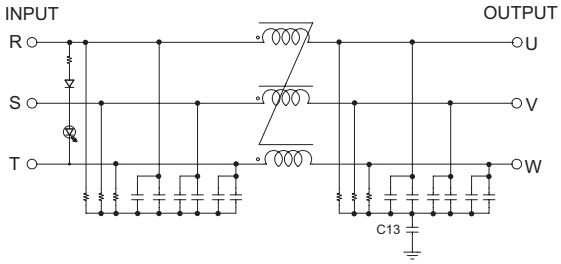
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFTH300T2C)
- WYFTH300T2A, WYFTH400T2A
  : KC(HH03009－10001D) (Without "C" Type)

Specifications

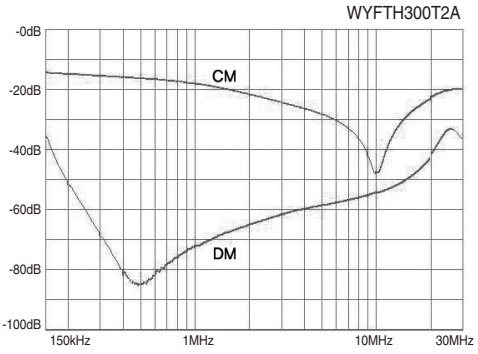
ITEM \ MODEL	SYMBOL	WYFTH300T2A WYFTH300T2C	WYFTH400T2A WYFTH400T2C
Rated Voltage	V	500	
Rated Current	A	300	400
Frequency	Hz	50 / 60	
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)	
Insulation Resistance	MΩ	300	
Leakage Current	mA	18	
Operating Temperature	°C	－25°C ~ +100°C [Refer to Derating Curve TYPE－2]	
Operating Humidity	RH	35 ~ 85%RH	
Weight	kg	9.5	

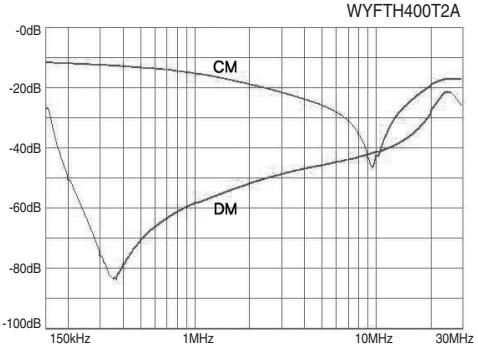
※Derating Curve of page 519

Circuit Diagram

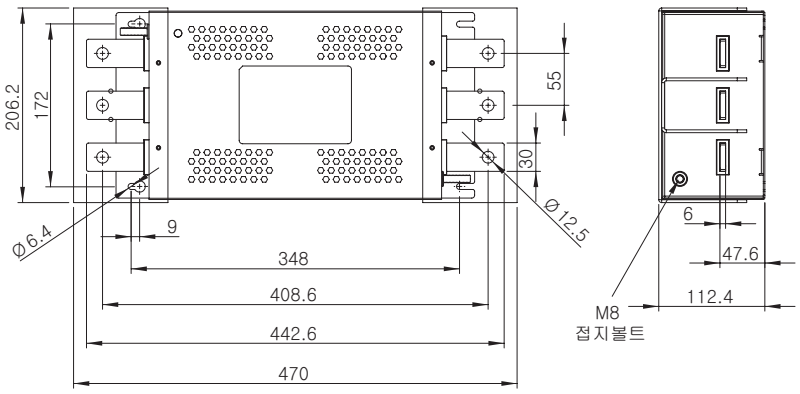


Characteristics





Dimension



3Ø 500V 보급형 Bus-bar형 Genera Type

RoHS



Features

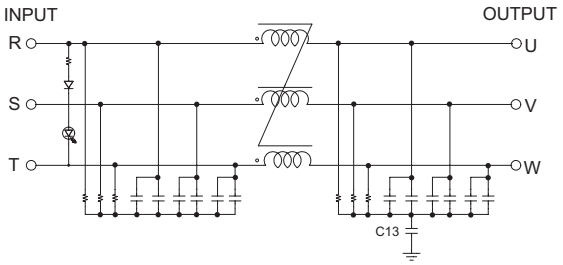
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFTH500T2C)
- WYFTH500T2A
  : KC(HH03009－10001D) (Without "C" Type)

Specifications

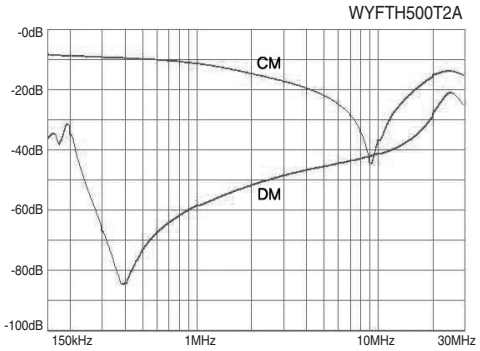
ITEM \ MODEL	SYMBOL	WYFTH500T2A WYFTH500T2C
Rated Voltage	V	500
Rated Current	A	500
Frequency	Hz	50 / 60
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)
Insulation Resistance	MΩ	500
Leakage Current	mA	18
Operating Temperature	℃	－25℃ ~ ＋100℃ [Refer to Derating Curve TYPE－2]
Operating Humidity	RH	35 ~ 85%RH
Weight	kg	9.5

※ Derating Curve of page 519

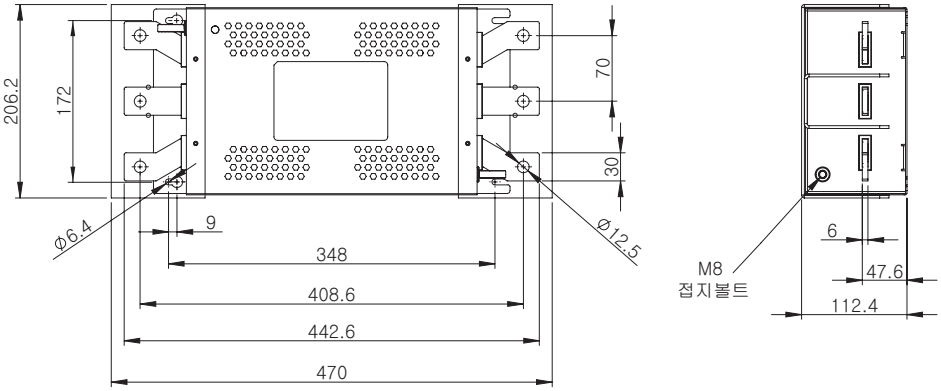
Circuit Diagram



Characteristics



Dimension



3Ø 500V 보급형 Bus-bar형 General Type

RoHS



Features

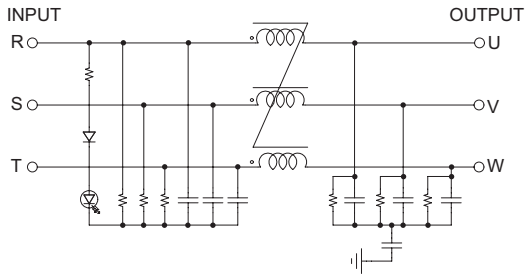
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- Low Leakage
- RoHS Compliant
- Inverter Output Type : Model Type"C" (WYFTH600T2C)
- WYFTH600T2A
  : KC(HH03009-10001D) (Without "C" Type)

Specifications

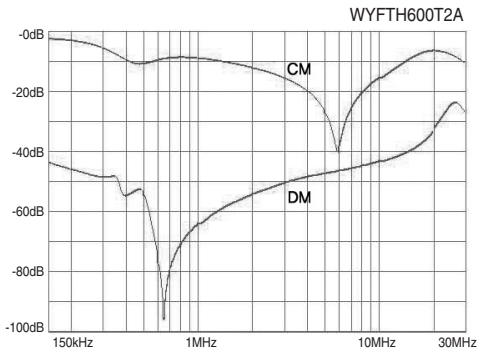
ITEM \ MODEL	SYMBOL	WYFTH600T2A WYFTH600T2C	WYFTH800T2A WYFTH800T2C	WYFTH1000T2A WYFTH1000T2C	WYFTH1200T2A WYFTH1200T2C
Rated Voltage	V	500			
Rated Current	A	600	800	1000	1200
Frequency	Hz	50 / 60			
Dielectric Withstand	V	2500VAC or 2800VDC for 1 minute(Line-Case)			
Insulation Resistance	MΩ	500			
Leakage Current	mA	18			
Operating Temperature	°C	−25°C ~ +100°C [Refer to Derating Curve TYPE−2]			
Operating Humidity	RH	35 ~ 85%RH			
Weight	kg	12			

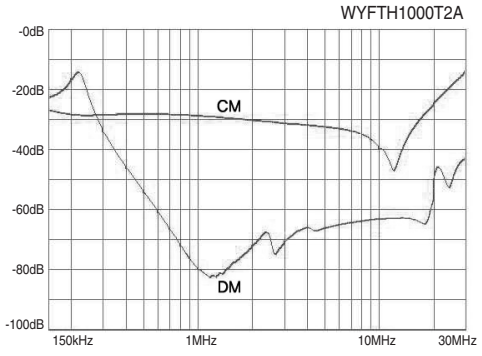
※ Derating Curve of page 519

Circuit Diagram

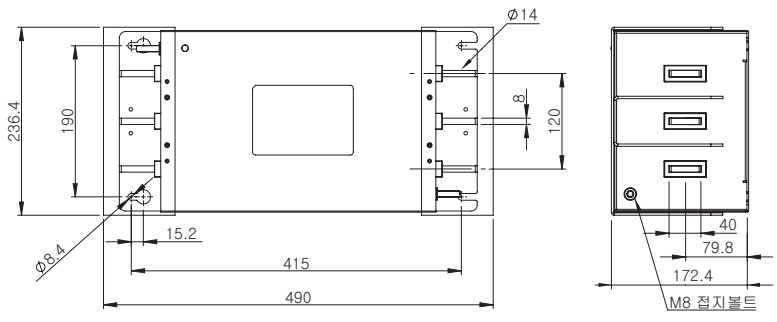


Characteristics





Dimension

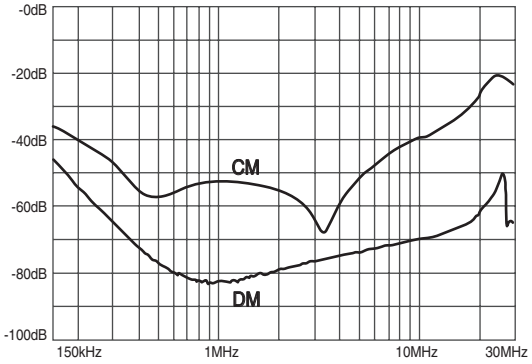


3Ø 250V Characteristics

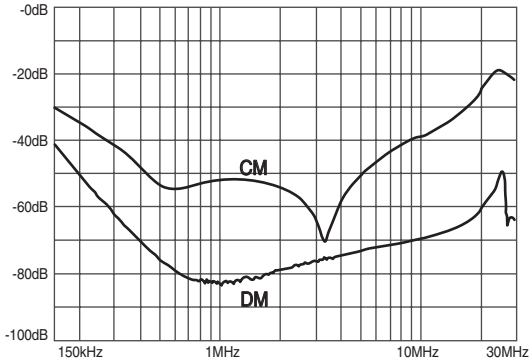
RoHS

Characteristics

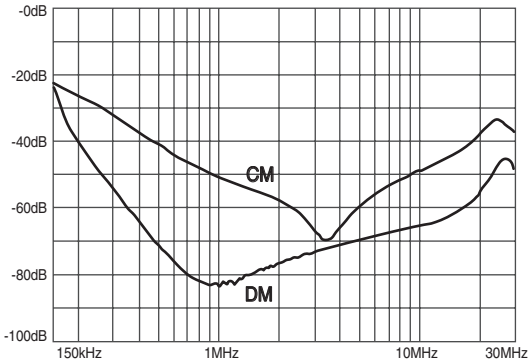
WYFT05T1A



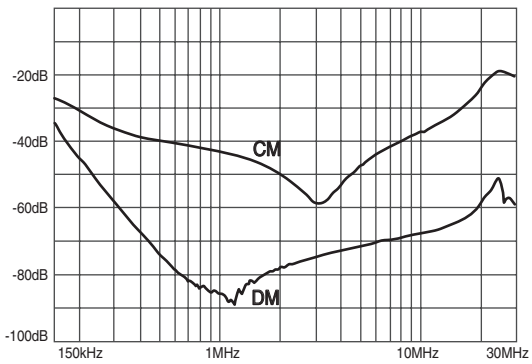
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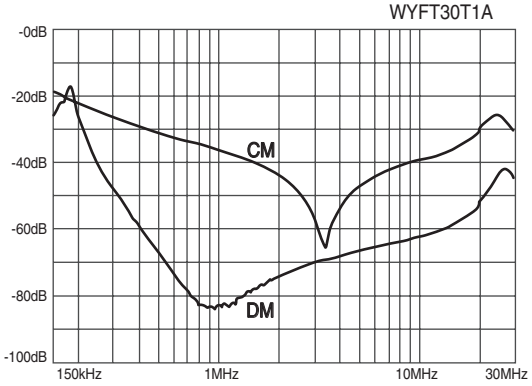
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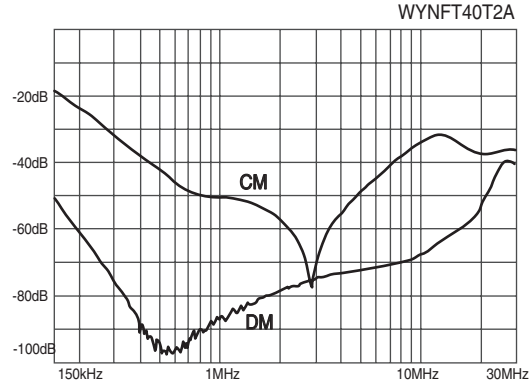
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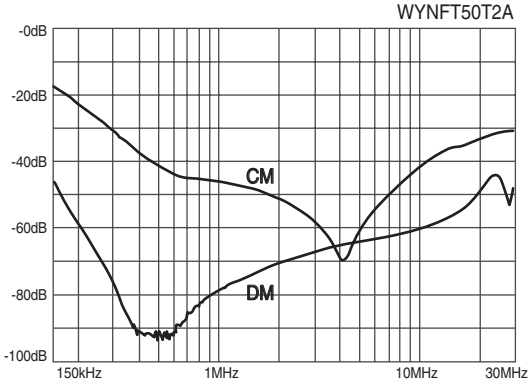
WYFT30T1A



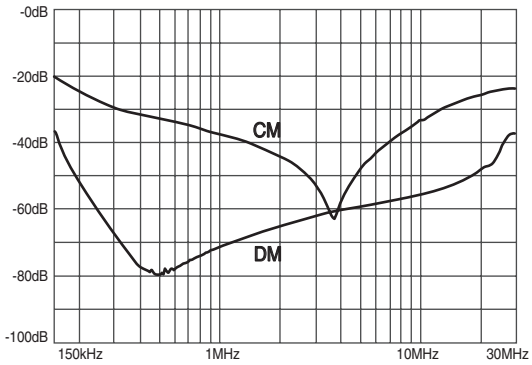
WYNFT40T2A



WYNFT50T2A



WYNFT60T2A



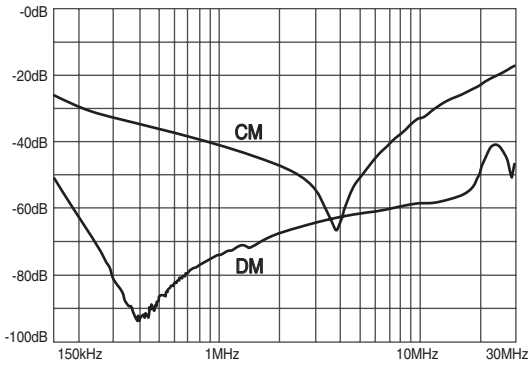
※CM : Common mode, DM : Differential mode

3Ø 250V Characteristics

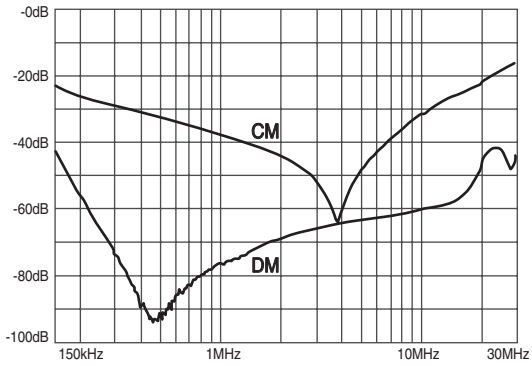
RoHS

Characteristics

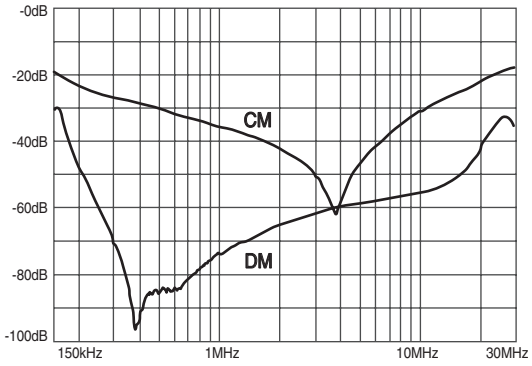
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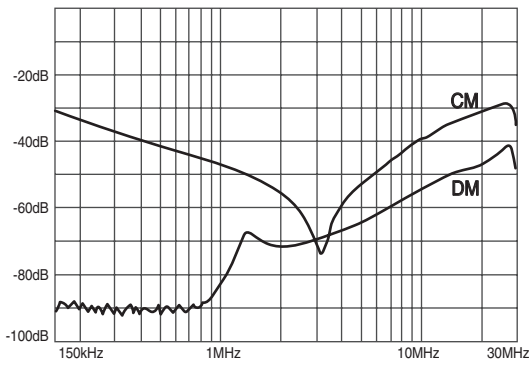
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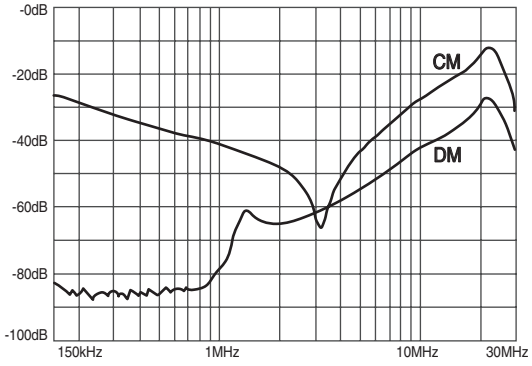
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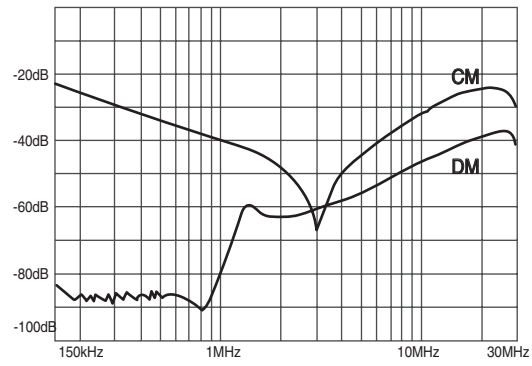
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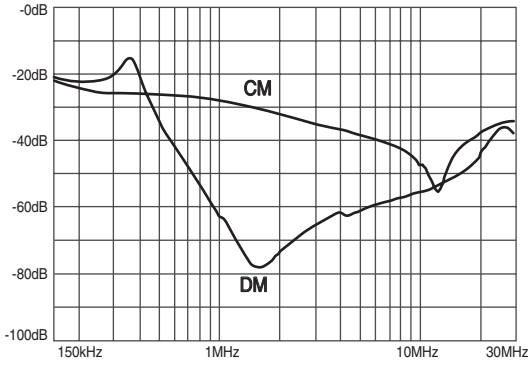
WYNFT200T2A



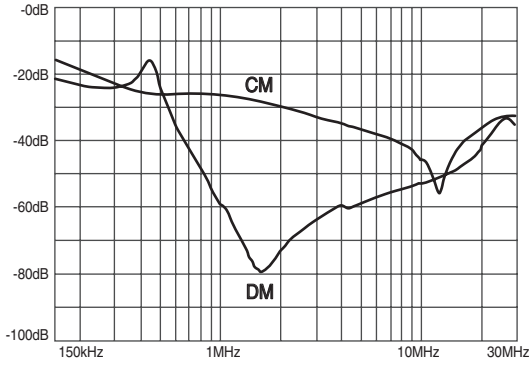
WYNFT250T2A



WYFT40T2A



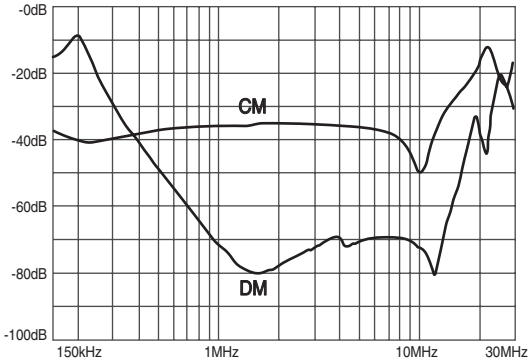
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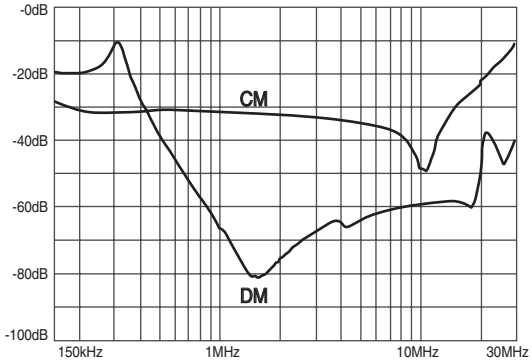
※CM : Common mode, DM : Differential mode

Characteristics

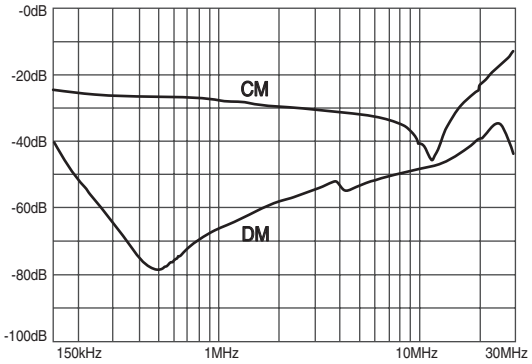
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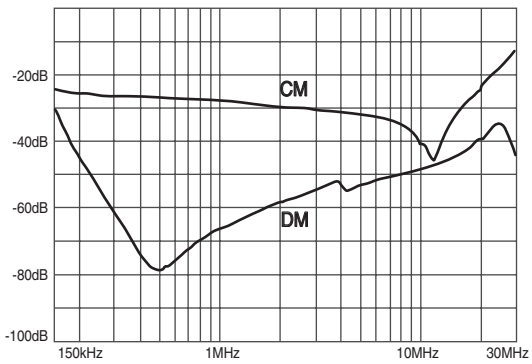
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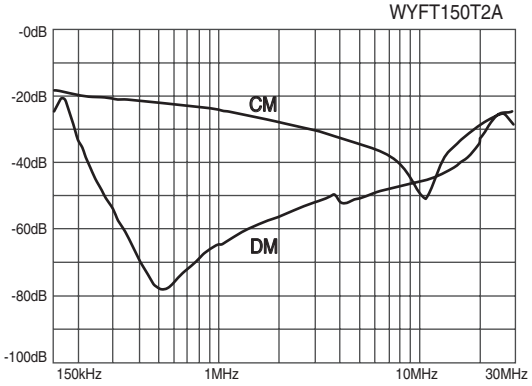
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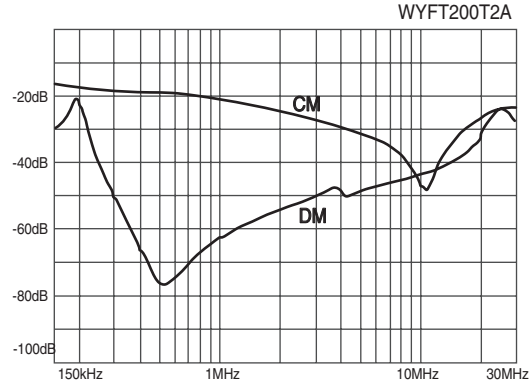
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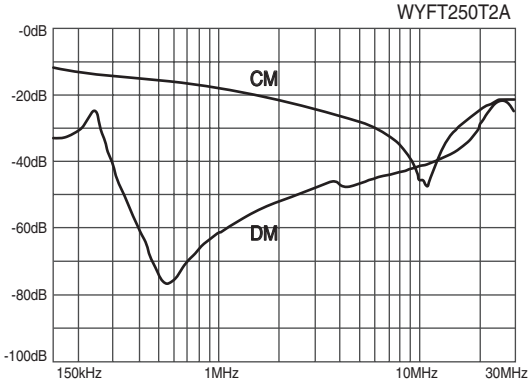
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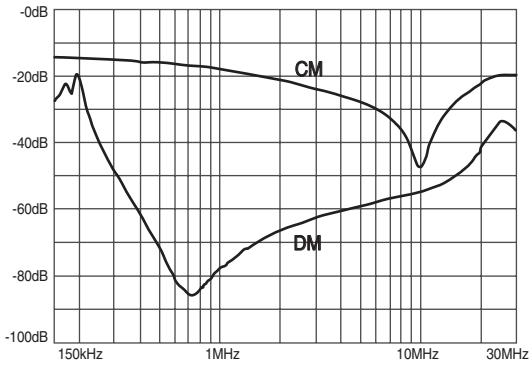
WYFT200T2A



WYFT250T2A



WYFT300T2A

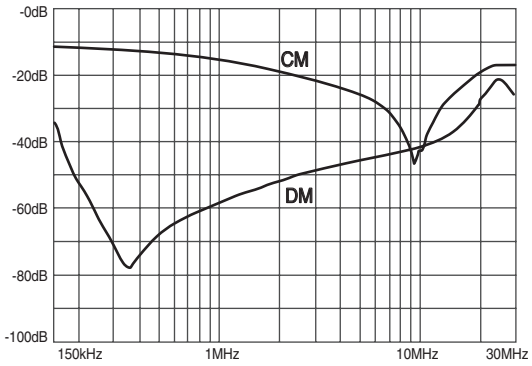


※CM : Common mode, DM : Differential mode

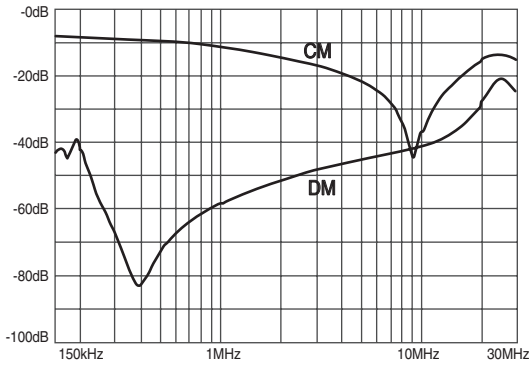
3Ø 250V Characteristics

● Characteristics

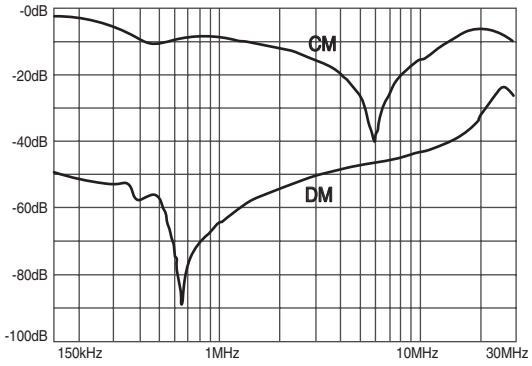
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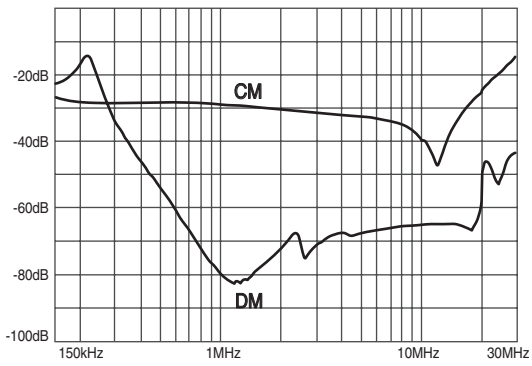
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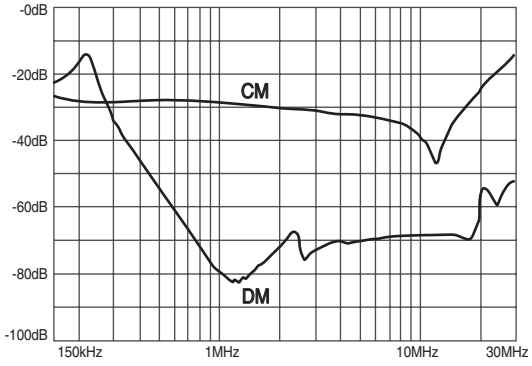
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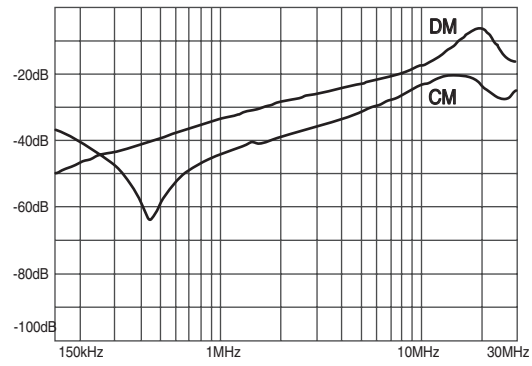
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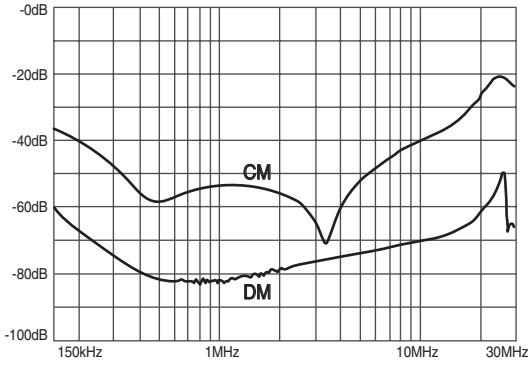
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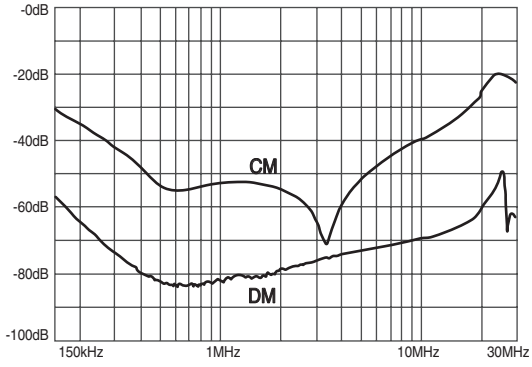
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WYFTH05T1A



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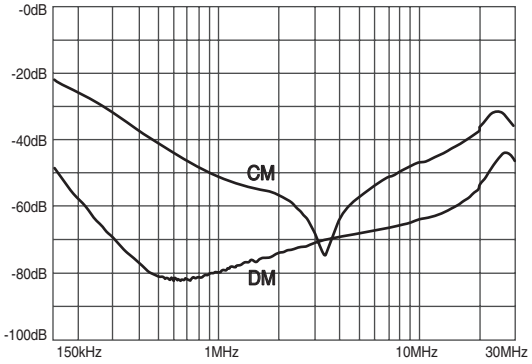


※CM : Common mode, DM : Differential mode

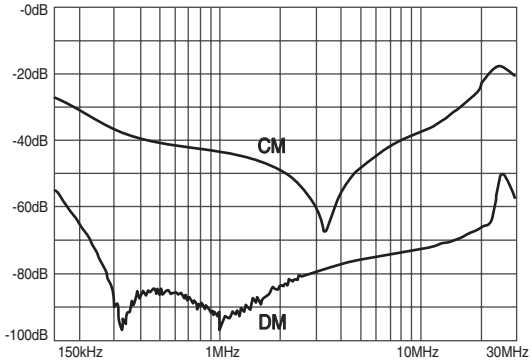
3Ø 250V Characteristics

● Characteristics

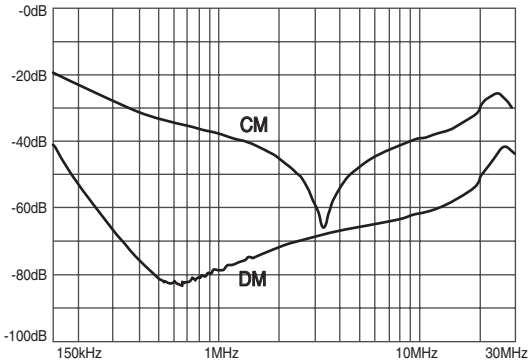
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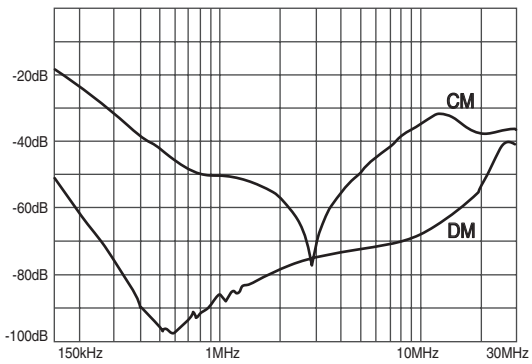
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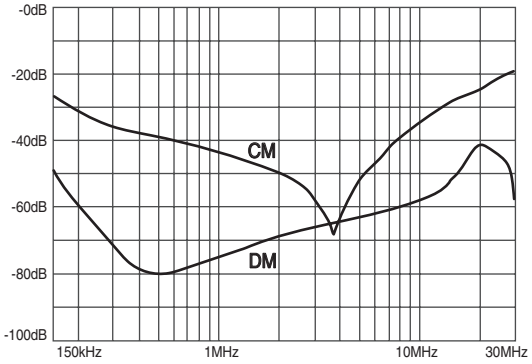
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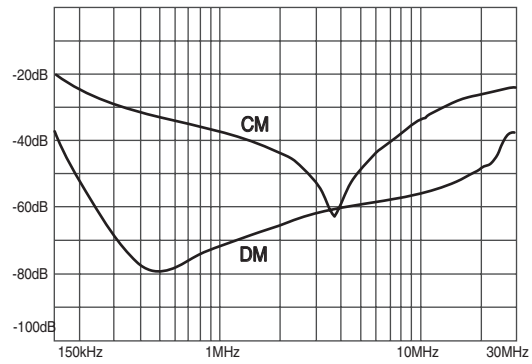
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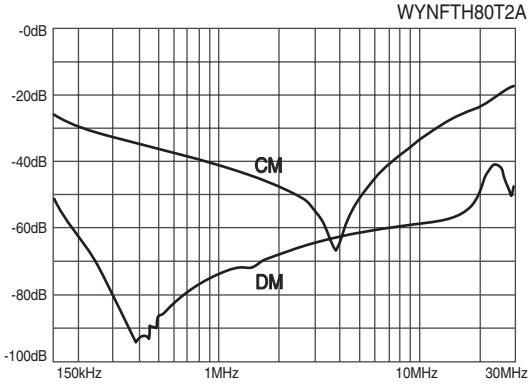
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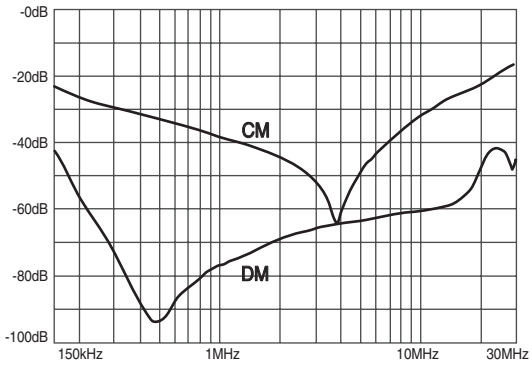
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WYNFTH80T2A



WYNFTH100T2A



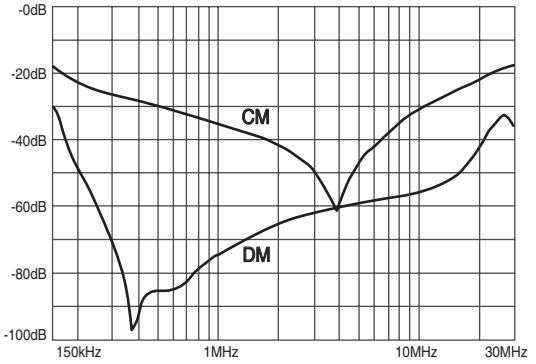
※CM : Common mode, DM : Differential mode

3Ø 250V Characteristics

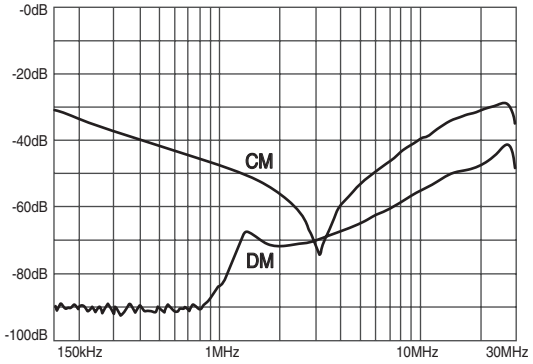
RoHS

Characteristics

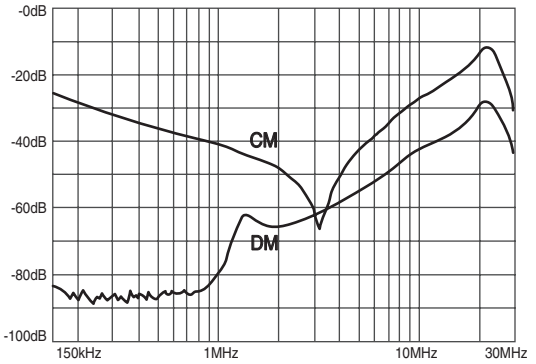
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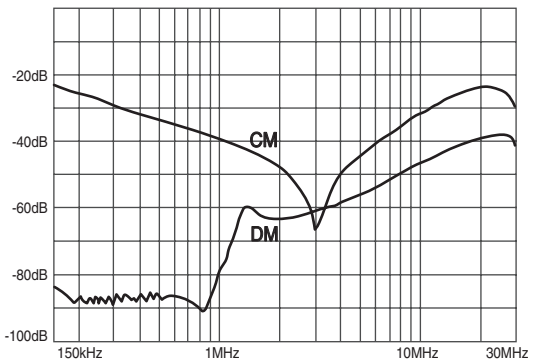
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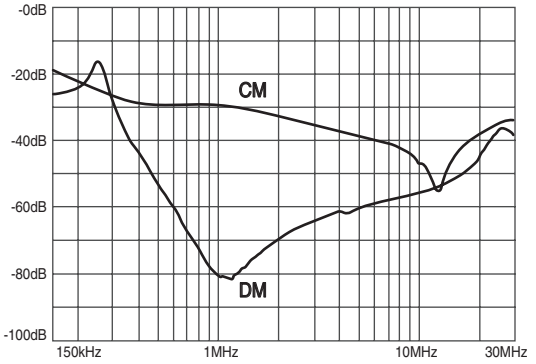
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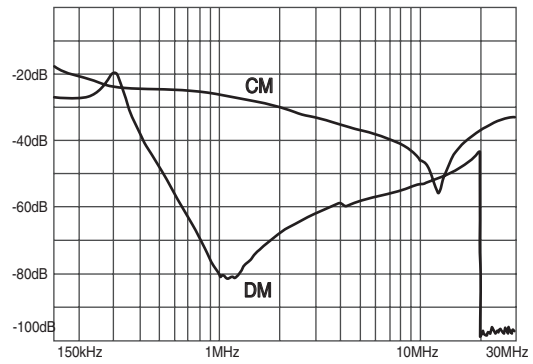
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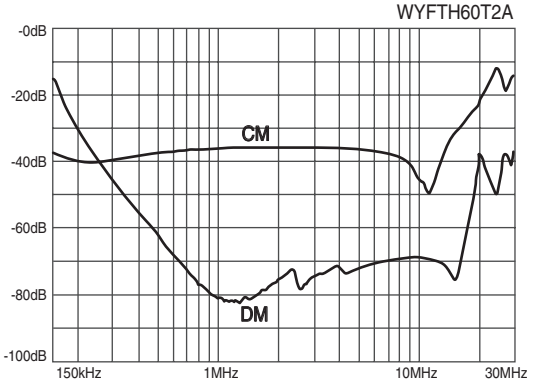
WYFTH40T2A



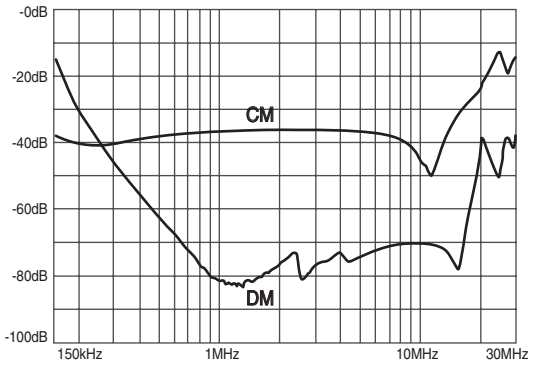
WYFTH50T2A



WYFTH60T2A



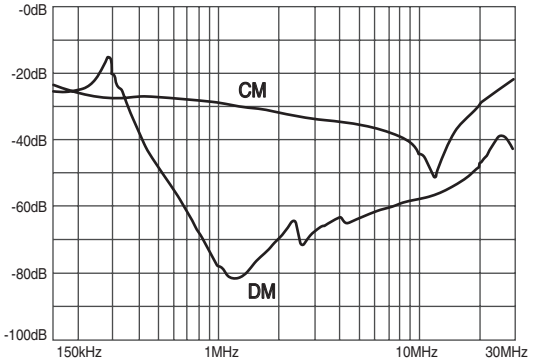
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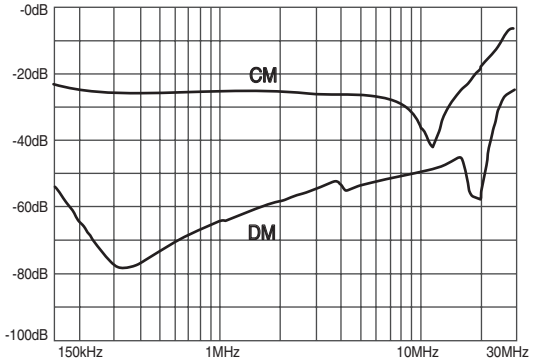
※CM : Common mode, DM : Differential mode

Characteristics

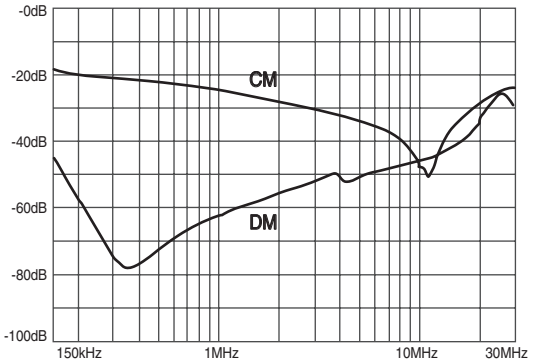
WYFTH100T2A



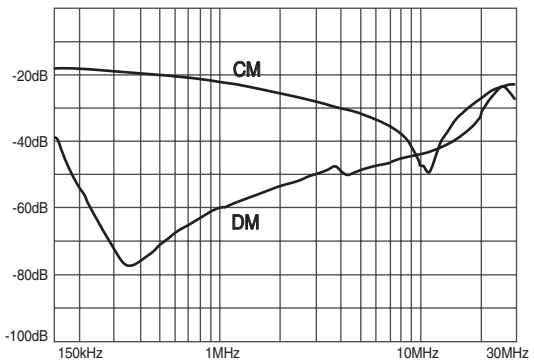
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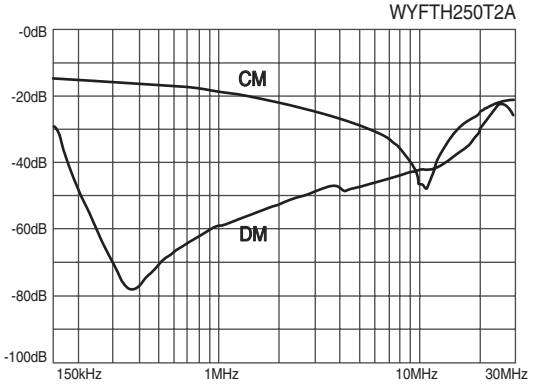
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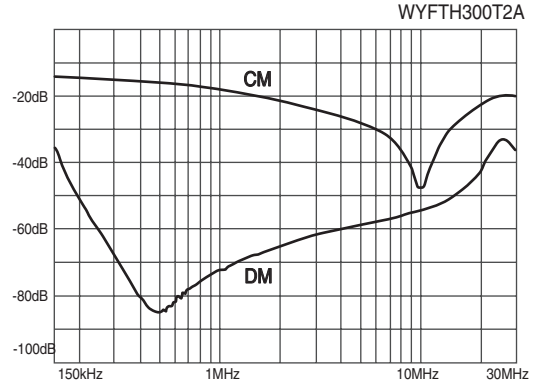
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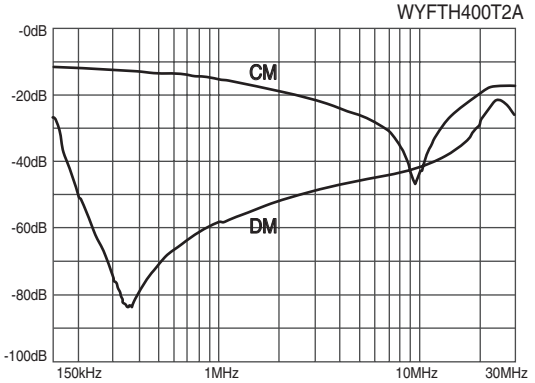
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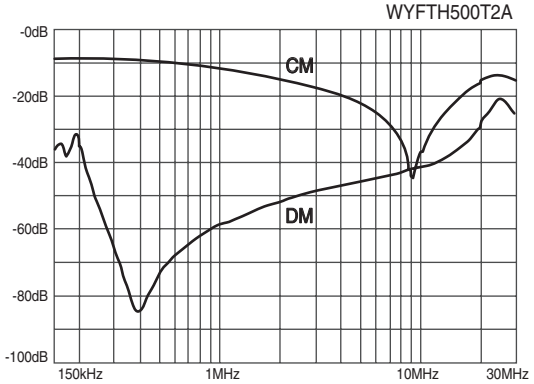
WYFTH300T2A



WYFTH400T2A



WYFTH500T2A



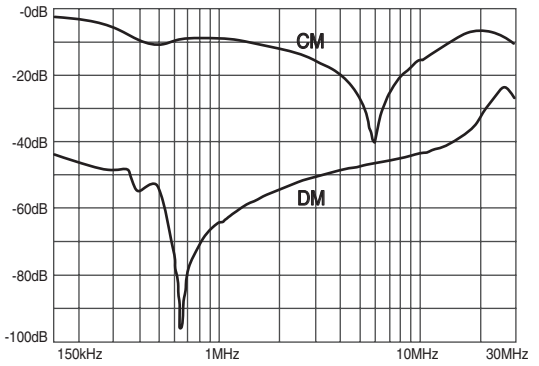
※CM : Common mode, DM : Differential mode

3Ø 250V Characteristics

RoHS

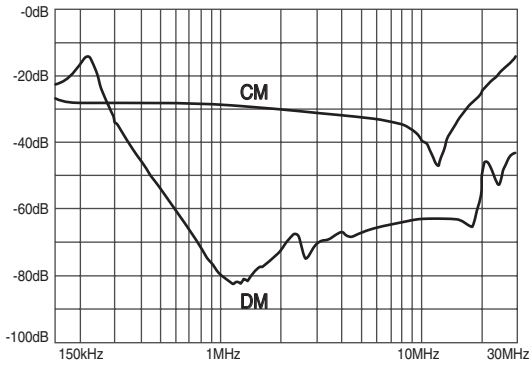
Characteristics

WYFTH600T2A

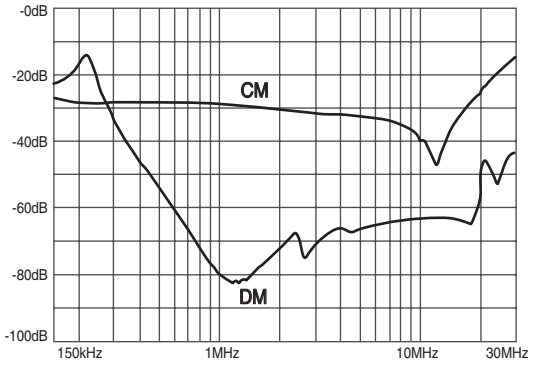


DM

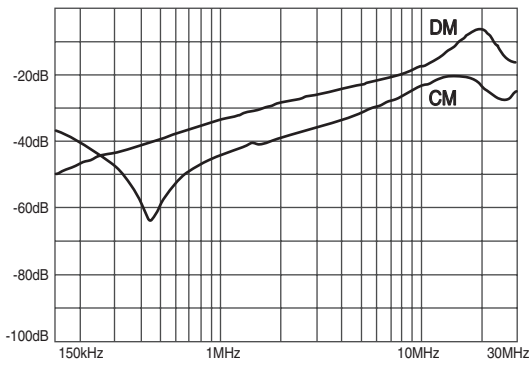
WYFTH800T2A



WYFTH1000T2A



WYFTH1200T2A



※CM : Common mode, DM : Differential mode

노이즈필터
Noise Filter

1Ø AC Power Line EMI Filter



•AC 250V 3~30A



AC Power Line EMI Filter



Features

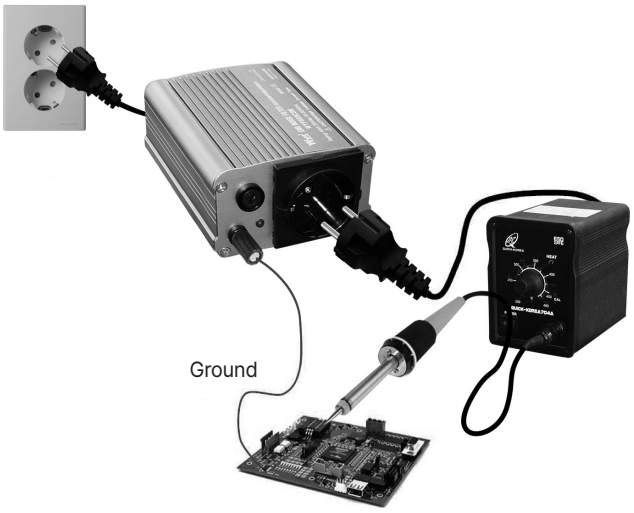
- Wide Band : High Attenuation
- Band Width : 150KHz ~ 30MHz
- RoHS Compliant

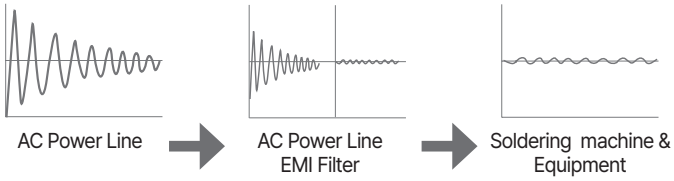
Specifications

ITEM \ MODEL	SYMBOL	WYFS03C2M	WYFS06C2M	WYFS10C2M	WYFS15C2M	WYFS30C2M
Rated Voltage	V	110 ~ 250				
Rated Current	A	3	6	10	15	30
Frequency	Hz	50 / 60				
Dielectric Withstand	V	1500VAC or 2250VDC for 1 minute(Line-Case)				
Insulation Resistance	MΩ	300				
Leakage Current	mA	0.5				
Operating Temperature	℃	−25℃ ~ +100℃ [Refer to Derating Curve TYPE−1]				
Operating Humidity	RH	35 ~ 85%RH				
Weight	kg	0.5				

※ 기타 : 주문제작 / ※ Derating Curve of page 519

Circuit Diagram





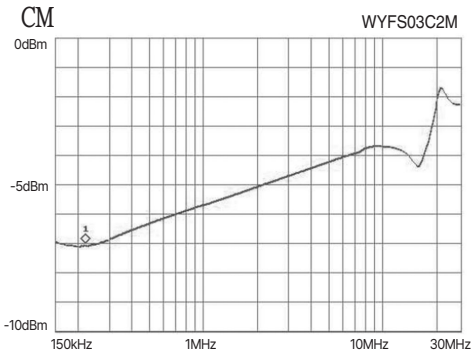
- 납땜 인두기 작업시 외부로부터의 고주파등 서지성 노이즈로 인하여 반도체 소손 및 PCB Board의 불량 발생방지하기위한 EMI 필터입니다.
- 기존의 제품보다 고신뢰성 특성과 저 대역까지 광범위하게 필터링할 수 있는 입력과 출력이 분리된 노이즈필터입니다.

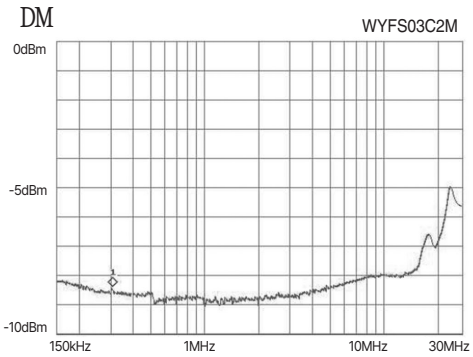
- Rated Voltage, RMS 110...250VAC
- Rated Current, RMS 3A~30A(Max.)
- Transient Signal Attenuation (Typical)
  Differential Mode 24dB
  Common Mode 20dB
- Continuous Signal Attenuation (Typical)
  0.1/100 Ohms Interface
  Low Frequencies 50dB
  High Frequencies 25dB
- Power Line Frequency 50/60Hz
- Power Indication LED

1Ø 250V EMI Filter

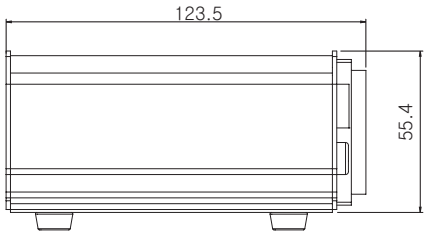
CE RoHS

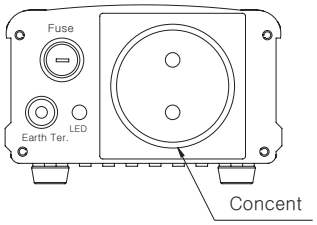
Characteristics

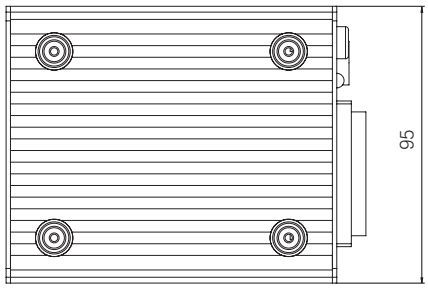


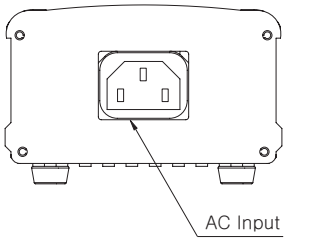


Dimension







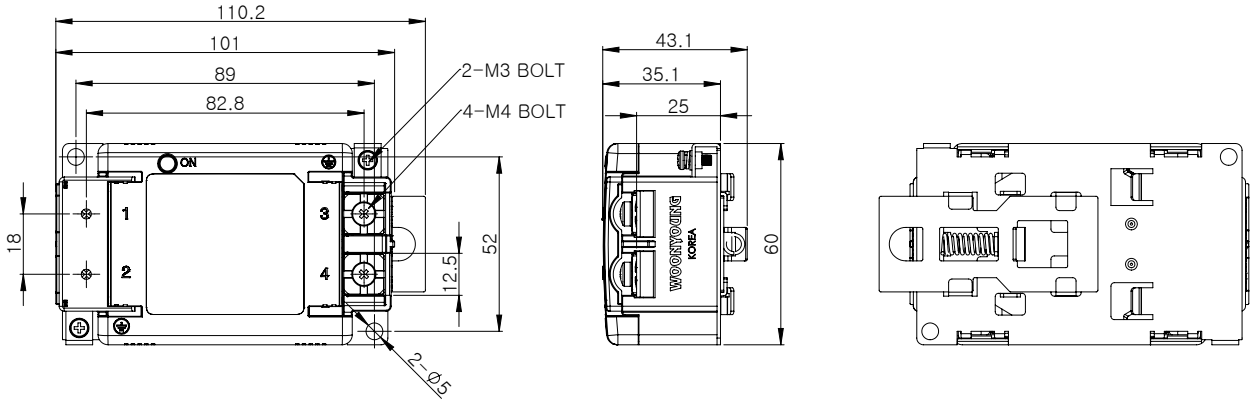


Dimension

본 제품은 PANEL에 직접 취부하지않고 일반 범용 Dinrail을 이용하여 간편하게 직접 취부할 수 있는 방식으로 사용할 수 있는 구조입니다.

This product is of a structure which allows easy installation through the use of common-purpose DIN rails instead of attaching it directly to the panel.

- 1 Phase -



- 3 Phase -

