EMI-RFI Filters MA Plastic Box Single-Phase Filters



Overview

The KEMET MA compact plastic PCB mount filters cover single-phase requirements with a wide variety of characteristics. These filters are optimized for conduction noise.

Applications

- Industrial equipment
- Electronic equipment

Benefits

- Single-phase 250 VAC
- Current range from 1 to 5 A
- Operating temperature range from -25°C to +55°C
- UL, CSA, and TÜV approved
- RoHS compliant

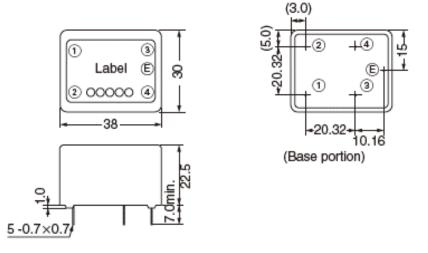


Part Number System

MA-	2	01	3
Series	Phase	Rated Current (A)	Specification
МА	2 = Single-phase	0x = 0x A	3 = Standard



Dimensions – Millimeters



Environmental Compliance

All KEMET MA EMI-RFI Filters are RoHS compliant.



Approvals

Certification Body	File Number	Part Number		
UL	E59551	MA-2013, MA-2023, MA-2033, MA-2043 and MA-2053		
CSA	LR50413	MA-2013, MA-2023, MA-2033, MA-2043 and MA-2053		
TÜV Rheinland Japan Ltd.	R50015843	MA-2013, MA-2023, MA-2033, MA-2043 and MA-2053		



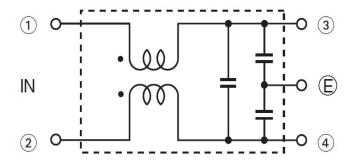
Performance Characteristics

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Rated Voltage	250 V		
Rated Current Range	1 – 5 A		
Withstanding Voltage	1,500 VAC (1 minute, line to ground)		
Insulation Resistance	300 MΩ minimum at 500 VDC (1 minute, line to ground)		
Leakage Current	0.75 mA maximum at 250 V/60 Hz		
Input/Output Terminal Type	PCB mount		
Operating Temperature Range	-25°C to +55°C (not including self temperature rise)		

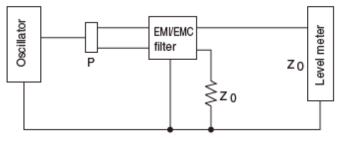
Table 1 – Ratings & Part Number Reference

Part Number	Phase	Rated Voltage AC/DC (V)	Rated Current AC/DC (A)	Leakage Current at 250 V/60 Hz (mA) Maximum	Temperature Rise (K) Maximum	Operating Temperature Range	Terminal Type	Approval	Weight (g)
MA-2013	Single-phase	250	1	0.75	30	-25°C to +55°C	PCB mount	UL, CSA and TÜV	30
MA-2023	Single-phase	250	2	0.75	30	-25°C to +55°C	PCB mount	UL, CSA and TÜV	30
MA-2033	Single-phase	250	3	0.75	30	-25°C to +55°C	PCB mount	UL, CSA and TÜV	30
MA-2043	Single-phase	250	4	0.75	30	-25°C to +55°C	PCB mount	UL, CSA, and TÜV	30
MA-2053	Single-phase	250	5	0.75	30	-25°C to +55°C	PCB mount	UL, CSA and TÜV	30

Circuit Diagram



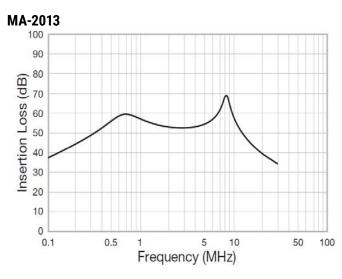
Measuring Circuit - Common Mode

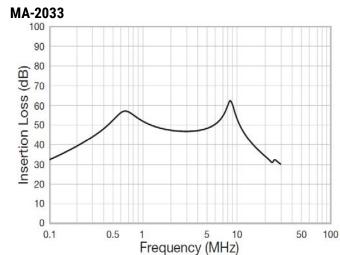


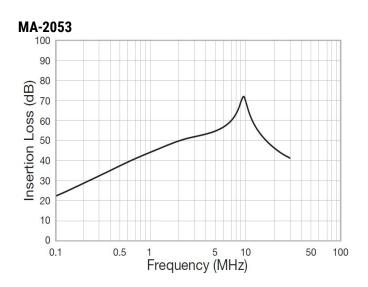
P: Power divider Z 0:50Ω

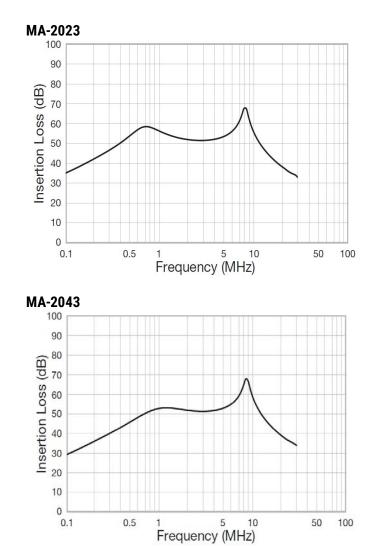


Attenuation (Static Characteristics)











Packaging

Part Type	Packaging Type	Pieces per Box
MA-20*3	Тгау	50

Handling Precautions

Precautions for product storage

EMI-RFI Filters should be stored in normal working environments. While the filters themselves are quite robust in other environments, solderability will be degraded by exposure to high temperatures, high humidity, corrosive atmospheres, and long term storage.

KEMET recommends that maximum storage temperature not exceed 40°C and maximum storage humidity not exceed 70% relative humidity and atmospheres should be free of chlorine and sulfur bearing compounds. Temperature fluctuations should be minimized to avoid condensation on the parts. Also, avoid storage near strong magnetic fields as this might magnetize the product.

For optimized solderability, EMI-RFI Filters' stock should be used promptly, preferably within 6 months of receipt.



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