EMI-RFI Filters RG Metal Cylinder Single-Phase Filters



Overview

The KEMET RG aluminum metal cylinder filters cover single-phase requirements. These filters are optimized for conduction noise. Their input/output terminals are Faston[®] type.

Applications

- Industrial equipment
- Electronic equipment

Benefits

- Single-phase 250 VAC
- Current 8 A
- Operating temperature range from -25°C to +55°C
- UL or UL and TÜV approved versions available
- RoHS compliant



Part Number System

RG-	2	08	F
Series	Phase	Rated Current (A)	Specification
RG	2 = Single-phase	0x = 0x A	F = High inductance F2 = Compact

Dimensions – Millimeters



Faston[®] is a registered trademark of Tyco Electronics AMP.

Part Number	Α	В	С	D
RG-208F	10	90	13	50
RG-208F2	12	60		

Environmental Compliance

KEMET RG EMI-RFI Filters comply with EU RoHS Directive 2011/65/EU and (EU) 2015/863. Products that fall under the exemptions listed in below table are also included.



Part Number	RoHS Compliant	RoHS Exemption Code
RG-208F	Yes	7(c)-I
RG-208F2	Yes	7(c)-I

Code	Exemption		
7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound		



Approvals

Certification Body	File Number	Part Number
UL	E59551	RG-208F2
TÜV Rheinland	R50006637	RG-208F
Japan Ltd.	R50013629	RG-208F2

Performance Characteristics

Item	Performance Characteristics
Rated Voltage	250 V
Rated Current	8 A
Withstanding Voltage	1,500 VAC (1 minute, line to ground)
Insulation Resistance	300 $M\Omega$ minimum at 500 VDC (1 minute, line to ground)
Leakage Current	1 mA maximum at 250 V/60 Hz
Input/Output Terminal Type	Faston®
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)
RG-208F	Single-phase	250	8	1	55	-25°C to +55°C	Faston®	ΤÜV	320
RG-208F2	Single-phase	250	8	1	55	-25°C to +55°C	Faston®	UL and TÜV	220



Circuit Diagram

RG-208F

RG-208F2





Note: (E) represents a screw installation porion (M8)

Measuring Circuit - Common Mode



P: Power divider Z 0: 50Ω



Attenuation (Static Characteristics)



Packaging

Part Type	Packaging Type	Pieces per Box
RG-2**F*	Tray	25

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, 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.

EMI-RFI Filters' stock should be used promptly, preferably within 12 months of receipt.



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Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicted or that other measures may not be required.

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