# **RG Metal Cylinder Single-Phase Filters**



### **Overview**

The KEMET RG aluminum metal cylinder filters cover single-phase requirements. These filters are optimized for both common and normal mode noise. Their input/output terminals are Faston type.

### **Applications**

- · Industrial equipment
- · Electronic equipment

### **Benefits**

- · Single-phase
- Operating temperature range from -25°C to +55°C
- UL or UL and TÜV approved versions available
- · RoHS compliant

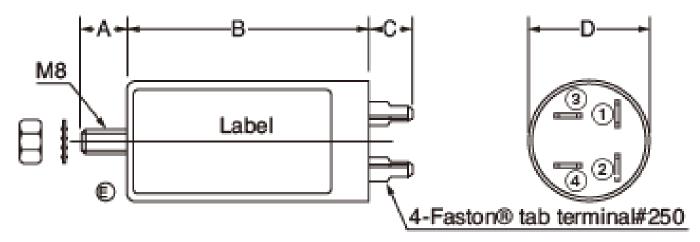


# **Part Number System**

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	A	В	С	D
RG-208F	10	90	10	50
RG-208F2	12	60	13	

# **Environmental Compliance**

All KEMET EMI-RFI Filters are RoHS compliant.



### **Performance Characteristics**

ltem	Performance Characteristics		
Rated Voltage	250 V		
Rated Current	8 A		
Withstanding Voltage	1,500 VAC (1 minute, line to ground)		
Insulation Resistance	$300~\text{M}\Omega$ minimum at 500 VDC (1 minute, line to ground)		
Leakage Current	1 mA at 250 V/60 Hz maximum		
Input/Output Terminal Type	Faston		
Operating Temperature Range	-25°C to +55°C (not including self temperature rise)		

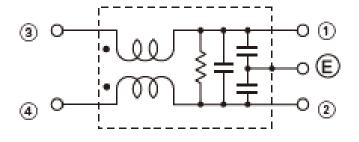


# **Table 1 - Ratings & Part Number Reference**

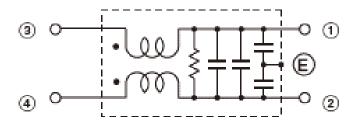
Part Number	Phase	Rated Voltage AC/DC (V)	Rated Current AC/DC (A)	Leakage Current at 250 V/60 Hz (mA) Maximum	Temperature Rise (K) Maximum	Operating Temperature Range	Terminal Type	Approval	Weight (g)
RG-208F	Single-phase	250	8	1	55	-25°C to +55°C	Faston	ΤÜV	320
RG-208F2	Single-phase	250	8	1	55	-25°C to +55°C	Faston	UL and TÜV	220

## **Circuit Diagram**

#### **RG-208F**

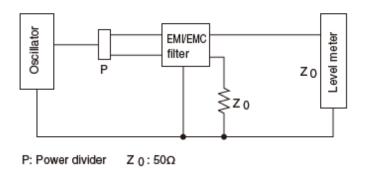


#### **RG-208F2**

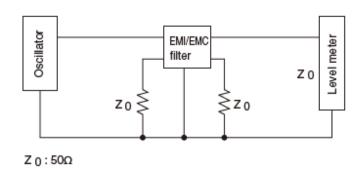


Note: E represents a case.

#### **Measuring Circuit - Common Mode**

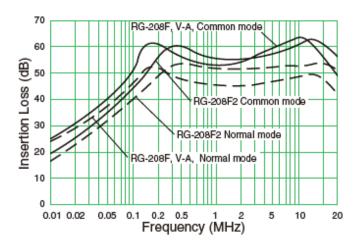


#### **Measuring Circuit - Normal Mode**





## **Attenuation (Static Characteristics)**



# **TÜV Rheinland Japan Ltd. Certification Numbers**

Part Number	File Number	
RG-208F	N° R2-50006637	
RG-208F2	N° R50013629	

# **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 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.

### **Export Control**

#### For customers in Japan

For products which are controlled items subject to the "Foreign Exchange and Foreign Trade Law" of Japan, the export license specified by the law is required for export.

#### For customers outside Japan

EMI-RFI Filters should not be used or sold for use in the development, production, stockpiling, or utilization of any conventional weapons or mass-destructive weapons (nuclear weapons, chemical or biological weapons, or missiles), or any other weapons.



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Although KEMET designs and manufactures its products to the most stringent quality and safety standards, given the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage.

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.