# EMI-RFI Filters VC Metal Cylinder Single-Phase Filters



#### **Overview**

The KEMET VC aluminum metal cylinder filters cover single-phase requirements. These filters are optimized for conduction noise. Their input/output terminals are Faston<sup>®</sup> type.

### **Applications**

- · Industrial equipment
- Electronic equipment

#### **Benefits**

- Single-phase 250 VAC
- Current 15 A
- Operating temperature range from -25°C to +55°C
- TÜV approved
- RoHS compliant



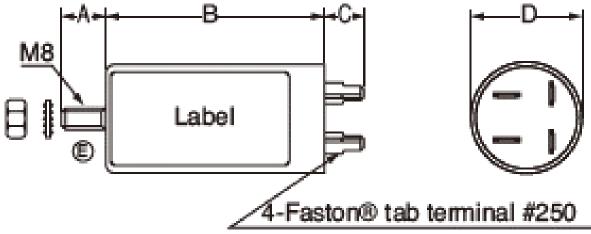
#### Part Number System

VC-	2	15	F3V
Series	Phase	Rated Current (A)	Specification
VC	2 = Single-phase	xx = xx A	F3V = Standard

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#### **Dimensions – Millimeters**



Recommended torque (N-m) maximum

• Earth terminal (M4: 4.41)

Faston® is a registered trademark of Tyco Electronics AMP.

Part Number	Α	В	С	D
VC-215F3V	12	60	12	38

## **Environmental Compliance**

KEMET VC 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	<b>RoHS Compliant</b>	<b>RoHS Exemption Code</b>
VC-215F3V	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**

<b>Certification Body</b>	File Number	Part Number
TÜV Rheinland Japan Ltd.	R50013342	VC-215F3V

#### **Performance Characteristics**

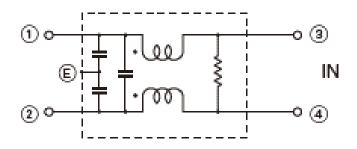
Item	Performance Characteristics		
Rated Voltage	250 V		
Rated Current	15 A		
Withstanding Voltage	1,500 VAC (1 minute, line to ground)		
Insulation Resistance	$300 \text{ M}\Omega$ minimum at 500 VDC (1 minute, line to ground)		
Leakage Current	1.5 mA maximum at 250 V/60 Hz		
Input/Output Terminal Type	Faston®		
Operating Temperature Range	-25°C to +55°C (not including self temperature rise)		

#### Table 1 – Ratings & Part Number Reference

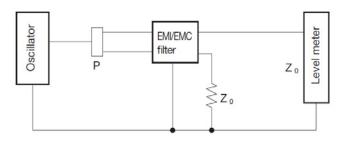
Part Number	Phase	Rated Voltage AC/DC (V)	Rated Current AC/DC (A)	Leakage Current at 250 V/60 Hz (mA) Maximum	Temperature Rise (K) Maximum	Operating Temperature Range	Terminal Type	Approval	Weight (g)
VC-215F3V	Single-phase	250	15	1.5	40	-25°C to +55°C	Faston®	ΤÜV	110

#### **Circuit Diagram**

#### VC-215F3V



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

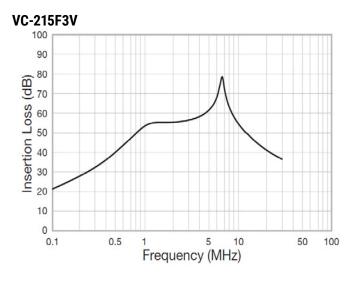


P: Power divider  $Z_0: 50\Omega$ 

Note: E represents a case.



### **Attenuation (Static Characteristics)**



### Packaging

Part Type	Packaging Type	Pieces per Box
VC-215F3V	Tray	60

### **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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