

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® type.

Applications

- Industrial equipment
- Electronic equipment

Benefits

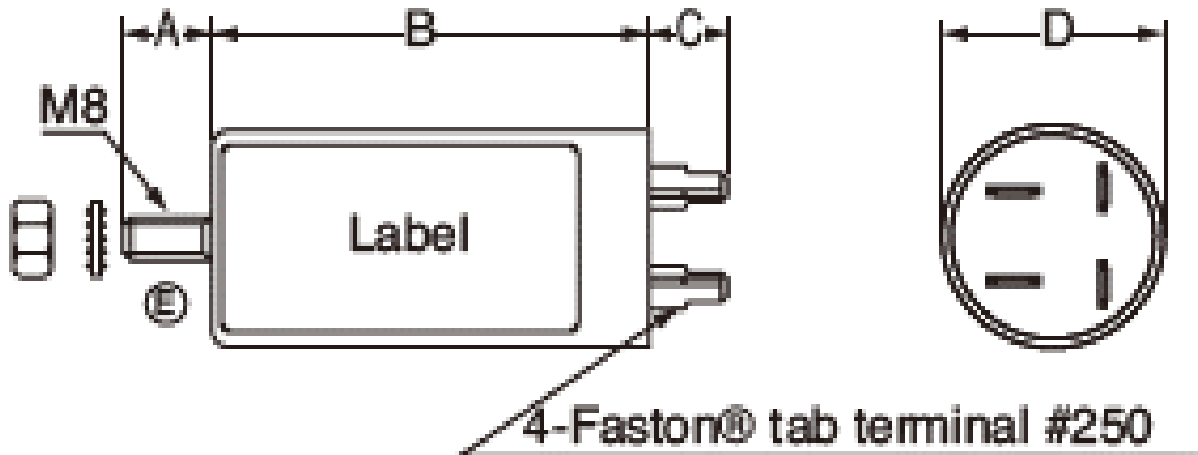
- Single-phase 250 VAC
- Current 15 A
- Operating temperature range from -25°C to +55°C
- TÜV approved
- RoHS compliant



Part Number System

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

Dimensions – Millimeters



Recommended torque (N-m) maximum

• Earth terminal (M4: 4.41)

Faston® is a registered trademark of Tyco Electronics AMP.

| Part Number | A | B | C | 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 | RoHS Compliant | RoHS Exemption Code |
|-------------|----------------|---------------------|
| 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

| Certification Body | File Number | Part Number |
|-----------------------------|-------------|-------------|
| TÜV Rheinland Japan Ltd. | R50013342 | VC-215F3V |

Performance Characteristics

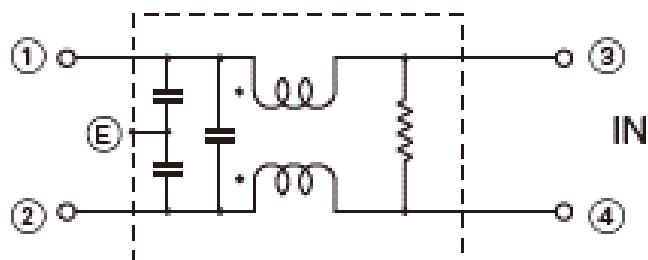
| Item | Performance Characteristics |
|-----------------------------|--|
| Rated Voltage | 250 V |
| Rated Current | 15 A |
| Withstanding Voltage | 1,500 VAC (1 minute, line to ground) |
| Insulation Resistance | 300 MΩ minimum at 500 VDC (1 minute, line to ground) |
| Leakage Current | 1.5 mA maximum 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® | TÜV | 110 |

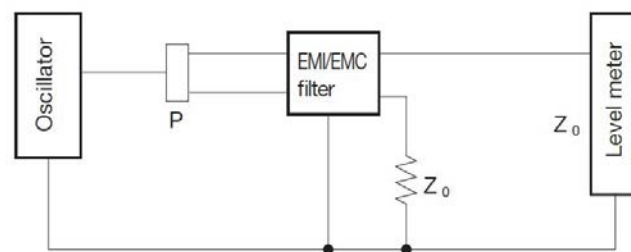
Circuit Diagram

VC-215F3V



Note: E represents a case.

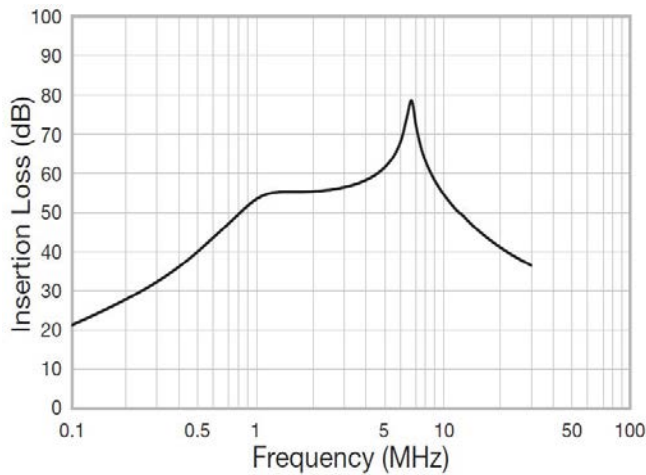
Measuring Circuit - Common Mode



P: Power divider Z_0 : 50Ω

Attenuation (Static Characteristics)

VC-215F3V



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.

KEMET Electronics Corporation Sales Offices

For a complete list of our global sales offices, please visit www.kemet.com/sales.

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