VU Metal Cylinder Single-Phase Filters

Overview

The KEMET VU compact aluminum metal cylinder filters cover single-phase requirements with a wide variety of characteristics. These filters are optimized for both common and normal mode noise. Their input/output terminals are Faston type.

Applications

- Industrial equipment
- Electronic equipment

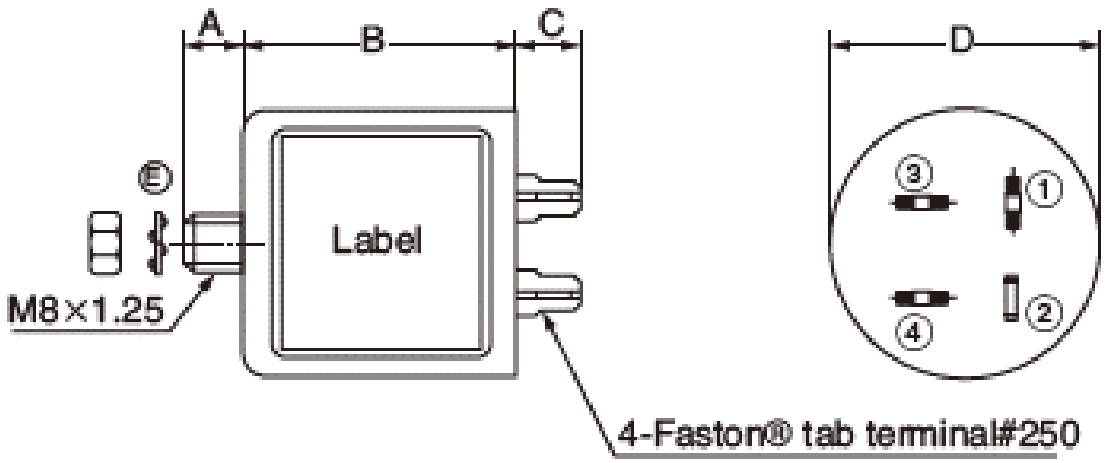
Benefits

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

Part Number System

VU-	2	20	F
Series	Phase	Rated Current (A)	Specification
VU	2 = Single-phase	0x = 0x A xx = xx A	F = Standard F3 = Low height

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
VU-215F	12	50	12	38
VU-215F3		40	13	45
VU-220F		50	12	50

Environmental Compliance

All KEMET EMI-RFI Filters are RoHS compliant.

Performance Characteristics

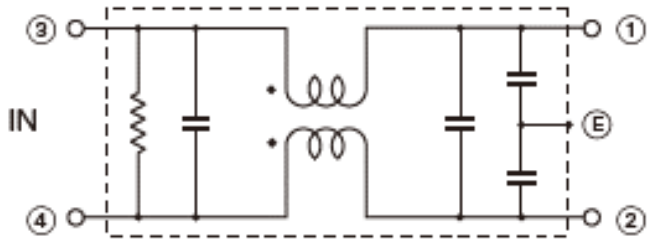
Item	Performance Characteristics
Rated Voltage	250 V
Rated Current Range	15 – 20 A
Withstanding Voltage	1,500 VAC (1 minute, line to ground)
Insulation Resistance	300 MΩ minimum at 500 VDC (1 minute, line to ground)
Leakage Current	1 mA at 250 V/60 Hz maximum
Input/Output Terminal Type	Faston
Operating Temperature Range	–25°C to +55°C (not including self temperature rise)

Table 1 – Ratings & Part Number Reference

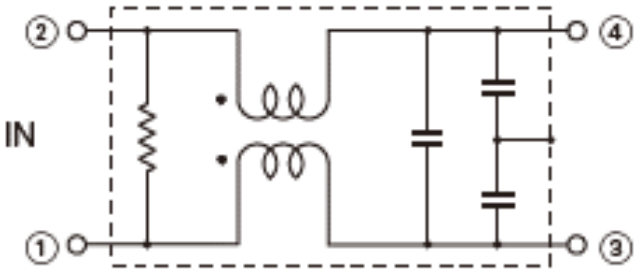
Part Number	Phase	Rated Voltage AC/DC (V)	Rated Current AC/DC (A)	Leakage Current at 250 V/60 Hz (mA) Maximum	Temperature Rise (K) Maximum	Operating Temperature Range	Terminal Type	Approval	Weight (g)
VU-215F	Single-phase	250	15	1	40	-25°C to +55°C	Faston	UL and CSA	130
VU-215F3	Single-phase	250	15	1	40	-25°C to +55°C	Faston	UL and CSA	105
VU-220F	Single-phase	250	20	1	40	-25°C to +55°C	Faston	UL, CSA, and TÜV	240

Circuit Diagram

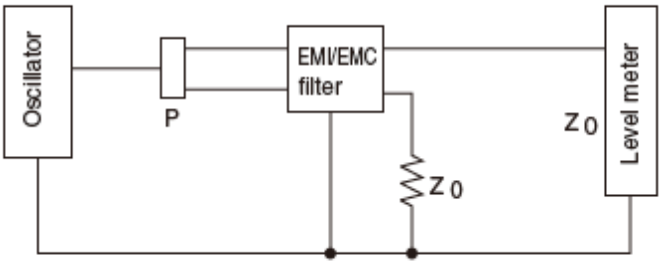
VU-215F, VU-220F



VU-215F3

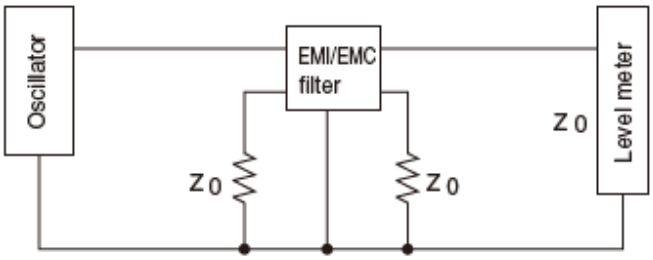


Measuring Circuit - Common Mode



P: Power divider Z 0 : 50Ω

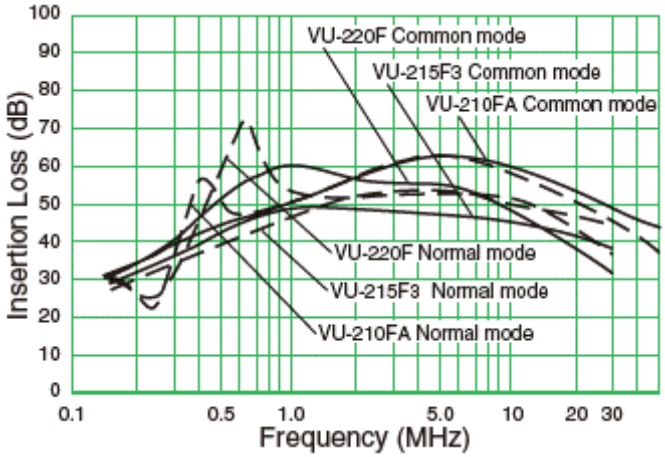
Measuring Circuit - Normal Mode



Z 0 : 50Ω

Attenuation (Static Characteristics)

VU-215F3, VU-220F



VU-215F

Image coming soon

TÜV Rheinland Japan Ltd. Certification Numbers

Part Number	File Number
VU-220F	N° R50015793

Packaging

Part Type	Packaging Type	Pieces per Box
VU-215F	Tray	30
VU-215F3		60
VU-220F		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.

KEMET Electronics Corporation Sales Offices

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

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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.

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