

Resin-Sealed EMI Filters

Resin-Sealed Electromagnetic Interference (EMI) Filters help maintain signal integrity in DC power and signal lines by filtering unwanted signals. These high-performance, sealed solutions are designed to withstand moisture, dust, mechanical shock and thermal cycling, enabling use in harsh industrial, aerospace and defense applications at a lower cost than hermetic glass-sealed alternatives.

ADVANTAGES AND FEATURES

Delivers effective insertion loss performance

High-performance discoidal ceramic elements offer capacitance values from 100 pF to 1 μ F (bolt-in versions) or 1,500 pF to 0.22 μ F (high-voltage versions) with consistent insertion loss performance from 1 MHz to 10 GHz, protecting sensitive systems and reducing system failures.

Supports multiple applications

Multiple C and LC feed-through circuit values are available for miniaturized applications and mid-band attenuation, while various Pi circuit options deliver exceptional broadband attenuation.

Enhances design flexibility

Bolt-in sizes range from 2-56 to 5/16-24, reducing design constraints and addressing a variety of size, weight and performance needs.

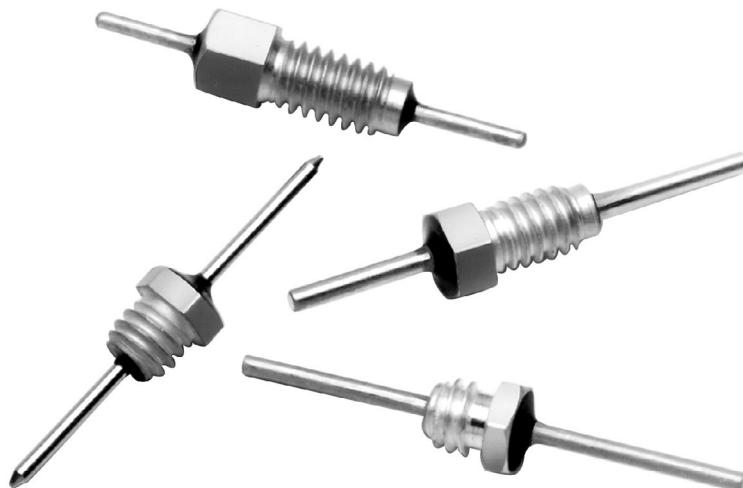
Thread Sizes	Bolt in: 4-40, 8-32, 10-32, 12-32, 5/16-24 High voltage: 3/8-32, 7/16-28, 5/8-24
Capacitance Values	Bolt in: 100 pF to 1 μ F High voltage: 1,500 pF to 0.22 μ F
Current	Bolt in: 3.0 to 25.0A High voltage: 25.0 to 100.0A
Circuit Options	C, LC, Pi
Voltage (at +125°C)	Bolt in: Up to 500V DC/220V AC (400 Hz) High voltage: Up to 1,250V DC/240V AC (400 Hz)
Operating Temperatures	-55 to +125°C

Simplifies installation work

Various lead options simplify soldering to terminals and make attaching wires or cables easier, accelerating assembly operations.

Enables use in harsh conditions

Resin-Sealed EMI Filters offer reliable environmental protection, making them ideal for use in aerospace and defense applications.



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MARKETS AND APPLICATIONS

Aerospace

Cockpit controls
Communication equipment
Hydraulic and control systems
Power supplies
Radar systems



Military Vehicles



Cockpit Controls



Medical Imaging Equipment

Defense

Cockpit controls
Communication equipment
Hydraulic and control systems
Military vehicles
Power supplies
Radar systems
Weapon systems

MedTech

Implantable products
Medical imaging equipment
Patient care monitors
Portable dialysis systems
Surgical tools

Industrial Automation

DC-to-DC converters
Industrial motor controls
Instrumentation
Power lines
Power supplies
Test equipment

Telecommunications

Computer and peripheral equipment
Digital and switching equipment
Internet protocol digital subscriber line access multiplexer (IP DSLAM) systems
Microwave, data and signal lines

Resin-Sealed EMI Filters ➤

SPECIFICATIONS

Bolt-In Resin-Sealed EMI Filters

Reference Information

Packaging: Bag
Designed in: Inches
RoHS: Yes (leaded versions also available)
MIL-SPEC: MIL-PRF-15733 variants available

Electrical

Capacitance: 100 pF to 1 μ F
Filter Circuits: C, LC, Pi
Current: 3.0 to 25.0A
Voltage (at +125°C): Up to 500V DC/220V AC (400 Hz)

Mechanical

Mounting Method: Bulkhead or tapped hole with nut and lock washer
Thread Sizes: 4-40, 8-32, 10-32, 12-32, 5/16-24
Terminal Diameter: 0.018 to 0.057"
Hex Width: 0.156 to 0.375"
Length (Hex to End of Lead): 0.360 to 0.890"
Length (Top Lead to Bottom Hex): 0.240 to 0.562"

Physical

Operating Temperatures: -55 to +125°C

High-Voltage/High-Current Resin-Sealed EMI Filters

Reference Information

Packaging: Bag
Designed in: Inches
RoHS: Yes (leaded versions also available)
MIL-SPEC: MIL-PRF-15733 variants available

Electrical

Capacitance: 1,500 pF to 0.22 μ F
Filter Circuits: C, LC, Pi
Current: 25.0 to 100.0A
Voltage (at +125°C): Up to 1,250V DC/240V AC (400 Hz)

Mechanical

Mounting Method: Bulkhead or tapped hole with nut and lock washer
Thread Sizes: 3/8-32, 7/16-28, 5/8-24
Hex Width: 0.500 to 0.815"
Length (Hex to End of Lead): 0.990 to 1.000"
Length (Top Lead to Bottom Hex): 0.740 to 1.010"

Physical

Operating Temperatures: -55 to +125°C