

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.

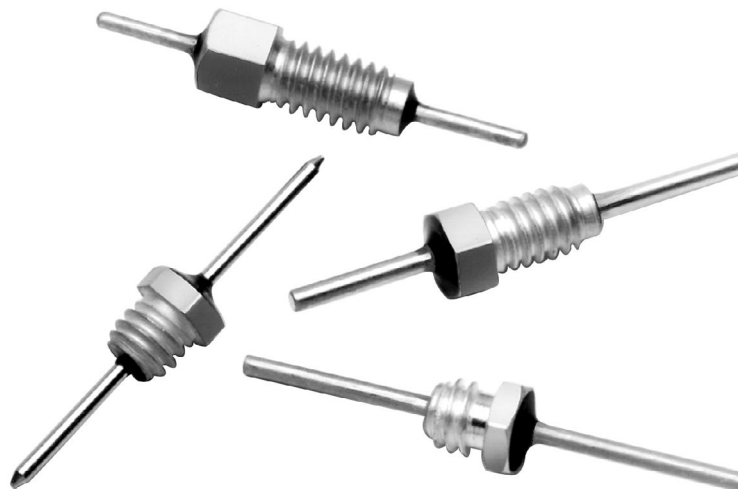
Thread Sizes	Bolt in: 4-40, 8-32, 10-32, 12-32, 5/16-24 High voltage: 3/8-32, 7/16-28, 5/8-24
Capacitance Values	Bolt in: 100 pF to 1 μ F High voltage: 1,500 pF to 0.22 μ F
Current	Bolt in: 3.0 to 25.0A High voltage: 25.0 to 100.0A
Circuit Options	C, LC, Pi
Voltage (at +125°C)	Bolt in: Up to 500V DC/220V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

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



Military Vehicles



Cockpit Controls



Medical Imaging Equipment

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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