

# EMI Filter Plates >

EMI Filter Plates deliver advanced protection against electromagnetic interference (EMI) for high-performance systems, enhance reliability and system performance by helping safeguard critical components, and optimize functionality across multiple lines. Compliant with stringent industry standards, EMI Filter Plates are ideal for harsh environments in the aerospace, defense and telecommunications industries.

## ADVANTAGES AND FEATURES

### Simplifies assembly operations

The design eliminates the need to assemble discrete filters into the bulkhead, reducing assembly time and costs.

### Delivers long-term reliability in harsh conditions

The rugged construction, precision manufacturing and robust testing prior to delivery help ensure dependable and consistent operation that outperforms surface-mount filters.

### Enhances design flexibility with multiple configurations

Mixed capacitance values and schematics, with vertical and right-angle exit options, assist in aligning with customers' design parameters.

### Maximizes space on the PCB

With up to 50 lines in a compact form factor, the filter plate saves space compared to discrete filters.

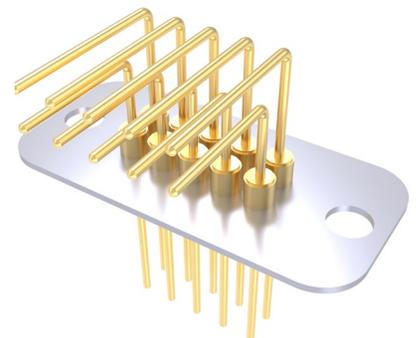
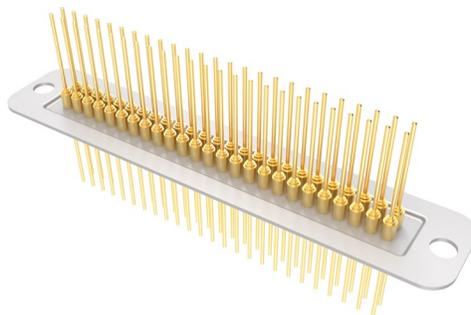
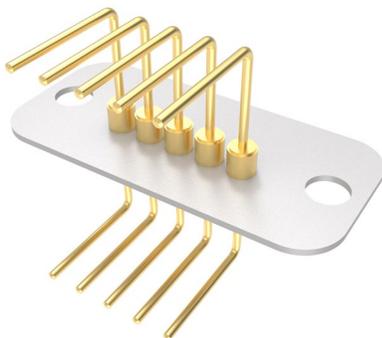
Frequency	5 MHz to 18 GHz
Voltage	100V
Filter Circuit	C, Pi
Lines	3 to 50
Lead Configuration	Vertical, right angle
Attachment	Snap-in (5 MHz to 18 GHz) or bolt-in (5 MHz to 1 GHz)
Operating Temperatures	-55 to +125°C

### Protects electronic components against damage

High-performance EMI filters with dimpled finger ground contacts help isolate electronic components and filter signals between system modules, preventing damage to components and helping meet electromagnetic compatibility requirements.

### Reduces installation time and cost

Snap-in variants for certain applications eliminate mounting hardware and streamline installation.



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## APPLICATIONS

### Aerospace/Defense

Tactical weapons  
 Military global positioning system  
 inertial measurement units  
 Target acquisition systems  
 Night-vision sensors  
 Backup engine controllers for ships  
 Flight instruments  
 Engine controls  
 Navigation equipment



Target Acquisition Systems



Monitoring Devices



Mobile/Cellular Repeaters

### Medical

Medical diagnostic equipment  
 Monitoring devices  
 Implantable defibrillators

### Telecommunications

Cellular base stations  
 Mobile/cellular repeaters

### Servers and Storage

Peripheral and terminal equipment  
 Graphics workstations

## SPECIFICATIONS

### Reference Information

Packaging: Tray  
 Designed in: Millimeters

### Electrical

Frequency: 5 MHz to 18 GHz  
 Working Voltage: 100V  
 Filter Circuit: C, Pi  
 Insertion Loss: Varies based on frequency  
 and capacitance

### Mechanical

Lines: 3 to 50  
 Lead Diameter: 0.25" (0.64mm) for 0.100"  
 (2.54mm) centers, 0.20" (0.51mm) for  
 0.079" (2.00mm) centers  
 Base Plate Thickness: 0.012" (0.30mm)  
 Lead Configuration: Vertical, right angle  
 Attachment: Snap-in (5 MHz to 18 GHz),  
 bolt-in (5 MHz to 1 GHz)

### Physical

Base Plate: Brass UNS C26000/C27000 (bolt-in)  
 or beryllium copper (snap-in)  
 Lead Material: Copper alloy  
 Plating: Tin or silver (base plate); gold (leads)  
 Operating Temperatures: -55 to +125°C

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