

# For EMI/EMP Protection Look to the leader...



Amphenol® EMI/EMP Protection Connectors have been designed in and manufactured for over 45 years. Our EMI/EMP protection connectors offer the versatility of our standard connectors with EMI/EMP protection to suit the demands of your application.

## ADVANTAGES OF FILTER CONNECTORS

- Reduction in overall weight and space with the elimination of external filtering.
- Reduction in solder joints
- Fewer components equals a cost effective solution with increased reliability
- Eliminates radiated and conducted EMI from entering the box
- Perfect for retrofits or late design-in
- Can utilize standard connector packaging!

## QUALITY

All filter connectors undergo extensive mechanical and electrical testing to ensure consistent, quality hardware.



### Standard Electrical Tests

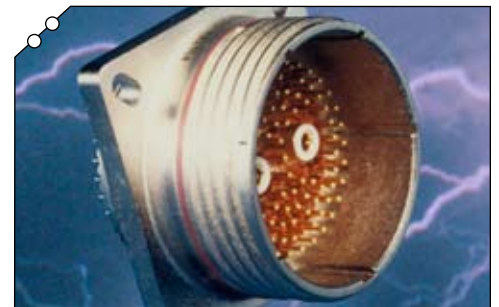
- 100% Insulation Resistance testing
- 100% Dielectric Withstanding Voltage testing
- 100% Capacitance testing at 1KHz

### Special Tests/Processes Available

- Attenuation testing (through 100 MHz)
- Leakage inspection
- Thermal cycling/shock
- Burn-in
- De-gassing

## OTHER OPTIONS INCLUDE:

- Filtered hermetics
- MOV
- Epoxy backfilled
- Composite
- Diode connectors



Amphenol will work to provide the best solution in standard packaging for the most cost effective solutions available.

## RESOURCES

Amphenol Aerospace factory direct: 607.563.5011

Filter Technical Support: [FilterApps@Amphenol-aa.com](mailto:FilterApps@Amphenol-aa.com)

Web site: [www.amphenol-aerospace.com/filters.asp](http://www.amphenol-aerospace.com/filters.asp)

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Call 800-678-0141 or visit us at [www.amphenol-aerospace.com](http://www.amphenol-aerospace.com)

For your convenience, Amphenol has included an EMI check sheet below. Complete as much of the sheet as possible, then scan and e-mail to the Amphenol Filter Group via the address at the bottom of the page. Please include your contact information and a Filter Group representative will contact you shortly with a tailored solution for your application's demands.

### Fill out the EMI Filter Connector Check list

Date \_\_\_\_\_

Ref. Filter P/N \_\_\_\_\_ Ref. Mil-Spec \_\_\_\_\_

**Filter Requirements:**

Filter Type (Pi, C, LC, T, LL, other) \_\_\_\_\_  
Capacitance (locations) \_\_\_\_\_  
Capacitance (locations) \_\_\_\_\_  
Capacitance (locations) \_\_\_\_\_  
Ground Contacts (locations) \_\_\_\_\_  
Insulated feed-thru (locations) \_\_\_\_\_

Frequency (MHz)	Insertion Loss (dB)
1	
3	
10	
30	
100	

**Electrical Requirements:**

Working Voltage (VDC or VAC and frequency) \_\_\_\_\_  
Dielectric Withstand Voltage (VDC) \_\_\_\_\_

**Modified Shell:** (Flange moved, clinch nuts, helicoils, stand offs, etc.) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Special Requirements:** (AC voltage, spike voltage, attenuation testing, thermal cycling, burn-in, capacitor lot traceability, water immersion, etc.) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Contact Termination:**

UTS (Crimp) \_\_\_\_\_  
Solder Cup \_\_\_\_\_  
Wire Wrap Flat dim. \_\_\_\_\_  
Stickout dim. \_\_\_\_\_  
PCB tail:  
Diameter dim. \_\_\_\_\_  
Stickout dim. \_\_\_\_\_  
Pre-tin? \_\_\_\_\_  
What is terminated to connector (ie. flex, rigid flex, PCB, etc.)? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Special Cleaning \_\_\_\_\_  
(if so, recommend a protective cap with an environmental gasket)

**Special Stamping:** \_\_\_\_\_

**Customer:** \_\_\_\_\_

**Program:** \_\_\_\_\_

**Forecast:** \_\_\_\_\_

**Requested by:** \_\_\_\_\_

**Comments:** \_\_\_\_\_



Scan/Email a completed form to [FilterApps@amphenol-aa.com](mailto:FilterApps@amphenol-aa.com)  
or fax a completed copy to 607-563-5157

Call 800-678-0141 or visit us at [www.amphenol-aerospace.com](http://www.amphenol-aerospace.com)