

EMI/EMP Protection Connectors



ADVANTAGES

- + 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!

OTHER OPTIONS

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

OVERVIEW

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.

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

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



CONTACT US:

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EMI/EMP Protection Connectors

PDS-217-1

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-aao.com or fax a completed copy to 607-563-5157