

## D-Sub & Micro-D Filter Connectors



D-Sub



Micro-D



D-Sub Right Angle

### INTRODUCTION

Amphenol CIT D-Sub & Micro-D filter connectors meet all the requirements of Mil-PRF-24308 and Mil-PRF-83513 while providing filtering in accordance with the attenuation curves noted herein. Mil-PRF-24308 connectors (Standard density and Hi-density) and Mil-PRF-83513 are manufactured in all layouts offering maximum contact density in a minimum of space.

Both series of connectors are offered with the standard variations in mounting hardware, standard straight or right angle contacts and PCB, solder cup, and crimp termination.

### PERFORMANCE, BENEFITS, & CERTIFICATION

- » Planar design
- » Machined shells
- » Ferrite immobilization
- » Space qualified
- » Can incorporate filtering plus Transient Voltage Suppression
- » Can meet DO-160 lightning requirements

### DESIGN CONSIDERATIONS

Rectangular	Mating End Contacts	Filter Types*	Electrical	Environmental	Mounting Hardware	Contact Terminations
MIL-DTL-24308	Pin	C	Feed Thru Contacts	Thermal Cycle	Clinch Nut	PC Tails
MIL-DTL-83513	Socket	Pi	Ground Contacts	Thermal Shock	Helicoil	Solder Cup
		C-L/L-C	DWV min ___ VDC	Burn-in	Jack Posts	Crimp
		T		Immersion		Wire Wrap
			Capacitance			
			Attenuation			

\* Maximum or Mixed Capacitance Requirement? \_\_\_ pF

## MECHANICAL & ENVIRONMENTAL PERFORMANCE

Connectors are designed to meet customer specifications and the applicable MIL Specification requirements. The following are the typical requirements for M24308 & M83513 filter connectors.

Test Description	Procedure
Temperature Cycling	EIA-364-32 Condition I
Durability	500 Matings at a rate of $200 \pm 100$ cycles per hour
Shock	EIA-364-27, 3 Axis
Vibration	EIA-364-28 Condition IV
Fluid Immersion	EIA-364-10 Test Fluids (a) and (d)
Salt Spray	EIA-364-26 Condition B
Humidity	EIA-364-31 Method IV



Burn-in, thermal shock and thermal cycle testing available in-house

## ATTENUATION GRAPHS

