

# D-Sub & Micro-D Filter Connectors







#### 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	С	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
		Т		Immersion		Wire Wrap
			Capacitance			
			Attenuation			

<sup>\*</sup> Maximum or Mixed Capacitance Requirement? pF

### **MECHANICAL & ENVIRONMENTAL PERFORMANCE**

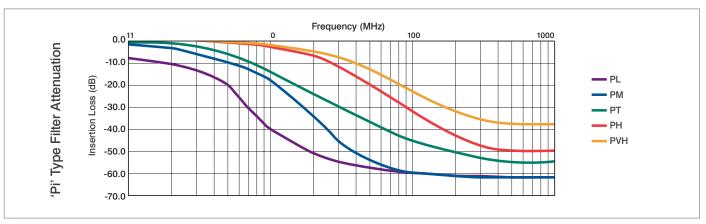
Connectors are designed to meet customer specifications and the applicable MIL Specification requirements. The following are the typical requirements for M24308 & M83513 filter connectors.

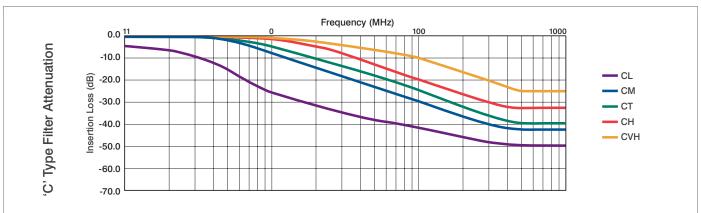
Test Description	Procedure		
Temperature Cycling	EIA-364-32 Condition I		
Durability	500 Matings at a rate of 200 $\pm$ 100 cycles per hour		
Shock	EIA-364-27, 3 Axis		
Vibration	EIA-364-28 Condition IV		
Fluid Immersion	EIA-364-10 Test Fluids (a) and (d)		
Salt Spray	EIA-364-26 Condition B		
Humidity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



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

## **ATTENUATION GRAPHS**







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