

Space Grade Single Line EMI Filter

MIL-PRF-28861 – Inspection (Class B versus B Plus)

Class B PDA	B Plus PDA	Group A 100% testing		Class B	B Plus	
10%	10% total cumulative	5% PDA	Thermal shock, -55- +125C	5 cycles	25 cycles	
			Voltage Conditioning (Burn in), 2X rated voltage	164 hours	250 hours	
		Dielectric Withstanding Voltage, 2.5X rated voltage DC	same	same		
		Insulation Resistance, Room & Hot, rated voltage	same	same		
		Capacitance	same	same		
		Dissipation factor	same	same		
		Voltage Drop	same	same		
		X-Ray	same	same		
		Seal (glass seal)	Gross	Gross & Fine (Helium)		
		Outgassing (resin seal only)	n/a	Qualification of Potting		
				Group A sample testing	Class B	B Plus
				Visual/Mechanical	same	same
				Solderability	same	same

Group B Inspections	Class B Glass	B Plus Glass	Class B Resin	B Plus Resin
Group I				
AC voltage drop (when applicable)	X	X	n/a	n/a
Voltage and temperature limits of capacitance	X	X	X	X
Insertion loss (at temperature)	X	X	X	X
Barometric pressure (reduced)	X	X	X	X
Temperature rise	X	X	X	X
Current overload	X	X	X	X
Thermal strength	X	X	X	X
Thermal shock and immersion (when applicable)	X	X	n/a	n/a
Destructive physical analysis	n/a	X	n/a	X
Group II				
Subgroup 1				
Life	X	X	X	X
Subgroup 2				
Resistance to soldering heat	X	X	X	X
Salt spray (corrosion)	X	X	X	X
Radiographic inspection	X	X	X	X
Destructive physical analysis	n/a	X	n/a	X
Subgroup 3				
Resistance to solvents	X	X	X	X
Group III				
Shock (specified pulse)	X	X	X	X
Vibration (high frequency)	X	X	X	X
Random vibration	n/a	X	n/a	X
Thermal shock and moisture resistance (when applicable)	X	X	n/a	n/a
Seal (when applicable)	X	X	n/a	n/a
Radiographic inspection	X	X	X	X
Destructive physical analysis	n/a	X	n/a	X