

Space Grade Single Line EMI Filter

MIL-PRF-28861 – Group B 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
		Visual/Mechanical	same	same	
		Solderability	same	same	
		DPA	n/a	2 piece sample	

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