



Standard Filters

The test listing below is the test protocol for the WEMS Standard Filters using MIL-PRF-15733, Group A as a guide.

TESTS 100% INSPECTION	METHODS		TEST REQUIREMENTS
	MIL-PRF-15733	MIL-STD-202	
Visual & Mechanical (Sampling)	4.6.1	–	Materials, design, construction, dimensions, marking & workmanship
Seal (When Applicable)	4.6.2	112	Test Condition A or D
Radiographic Inspection	–	209	Two views normal to the major axis (90° apart)
Capacitance To Ground	4.6.3	305	@ 1000±Hz with 0.1 to 1.2 Vrms applied
Dielectric Withstanding Voltage	4.6.5	301	DC rated filters-> 2.5 x rated voltage DC /AC rated filters- 2.5 x rated voltage AC rated only- 2.8 x rated AC voltage
Insulation Resistance (+25°C)	4.6.7	302	100 VDC or rated DC voltage, whichever is less
Insertion Loss	4.6.9	MIL-STD-220	Full load over the frequency range of 150 kHz to 20 MHz No load above 20 MHz
DC Resistance	–	303	Test is optional if DC Voltage Drop is performed
AC Voltage Drop	4.6.8.1	–	See MIL-PRF-15733 for voltage drop tests
DC Voltage Drop	4.6.8.2	–	

High Reliability Filters

The test listing below is the test protocol for the WEMS High Reliability Filters using MIL-PRF-28861, Group A as a guide. MIL-PRF-28861 Class S and Class B testing is available upon request.

TESTS 100% INSPECTION	METHODS		TEST REQUIREMENTS
	MIL-PRF-28861	MIL-STD-202	
Thermal Shock	4.6.2.1	107	Test condition A except in step 3 test units at +125°C
Voltage Conditioning (Burn-In)	4.6.2.2	108	DC rated - 164 ± 4 hrs at 2 x rated voltage at +125°C AC / DC or AC only - 164 ± 4 hrs at 1.2 x rated rms voltage at +125°C
Dielectric Withstanding Voltage	4.6.3	301	DC rated filters-> 2.5 x rated voltage DC /AC rated filters- 2.5 x rated voltage AC rated only- 2.8 x rated AC voltage
Insulation Resistance (+125°C)	4.6.13.2	302	The value at +125°C will be 10% of specified value at +25°C 100 VDC or rated DC voltage, whichever is less
Insulation Resistance (+25°C)	4.6.13.1	302	The value shall be IAW the applicable specification sheets 100 VDC or rated DC voltage, whichever is less
Capacitance To Ground	4.6.4	305	@ 1000±Hz with 0.1 to 1.2 Vrms applied
Insertion Loss	4.6.5	MIL-STD-220	Full load over the frequency range of 150 kHz to 20 MHz No load above 20 MHz
DC Resistance	4.6.7	303	Test is optional if DC Voltage Drop is performed
AC Voltage Drop	4.6.6.1	–	See MIL-PRF-15733 for voltage drop tests
DC Voltage Drop	4.6.6.2	–	
Radiographic Inspection	4.6.8	209	Two views normal to the major axis (90° apart)
Seal (When Applicable)	4.6.9	112	Test Condition A or D
Visual & Mechanical (Sampling)	4.6.1	–	Materials, design, construction, dimensions, marking & workmanship
Solderability (Sampling)	4.6.25.1	208	Two terminations tested