

GENERAL INFORMATION

Laboratory test is the standard to maintain our quality reliability, The list below is the routine tests we are running for quality reliability. Actual Laboratory test activities are more than these items. Please contact our service teams for details.

Laboratory Test	Reference Documents	Laboratory Test Methods.	Required Standards.
Temperature Cycling Test.	IEC 68-2-14	Temperature changing +20°C,~-40°C,~+20°C,~+105°C, and +20°C, Each step for 30minutes. Take this as one cycle. Total running 5 cycles. After this, rest 1 or 2 hours before test.	The relevant specifics remain in acceptable range.
Terminal Strength.	IEC 68-2-21	Tensile: Apply 10N to the terminal in the axial direction away from the body. Bending: Bend the terminal through an angle of 90° ,Back to initial. Then opposite direction, and back again.	No visible damage after test. The relevant specifics remain in acceptable range.
Solderability	IEC 68-2-20 Ta	Solder bath at 235±5°C Solder wetting time should be 2.0±0.5 sec.	Uniform coating of solder should be minimum 95%. No visibe damage afer test. The relevant specifics remain in acceptable range.
Resistance to Soldering Heat	IEC 68-2-20 Tb	Solder bath: Solder bath at 260°C. Immersion time. 10±1sec. Solder iron: And Solder iron at 350±10°C Application time 3.5±0.5 sec.	No visible damage after test. The relevant specifics remain in acceptable range.
Vibration Proof	IEC 68-2-6 Fc	In the frequency 10Hz~50Hz. Amplitude 1.5mm. 2hours period for each perpendicular direction. Toyal 6 hours.	No visible damage . No open or short circuit.
Damp Heat (Steady state)	IEC 68-2-3 Ca	Maintain the chamber in 40±2°C, and humidity 95%. Total of 1000hours. After this, rest 1or 2 hours in standard conditions before test.	The relevant specifics remain in acceptable range.
Damp Heat (with Load)		Rated Voltage should be applied continuously to the capacitor in 40±2°C, and humidity 95%. Total of 1000hours. After this, rest 1or2 hours in standard conditions before test.	The relevant specifics remain in acceptable range.
Electrical Endurance	IEC 6038-17	125% of rated Voltage should be applied to the capacitor at upper category temperature for 2000 hours. After this, rest 1 or 2 hours in standard conditions before test.	The relevant specifics remain in acceptable range.
Dry Heat Test	IEC 68-2-2	105°C, 16hr, 20pcs.	The relevant specifics remain in acceptable range.
Temperature Characteristics Test		-40°C, -2°C, 0°C, 20°C,40°C, 60°C, 85°C,and 105°C. 5pcs.	△C vs Temperature, DF vs Temperature, ESR vs Temperature.
Frequency Characteristics Test		100Hz to 1Mhz.	△C vs Temperature, DF vs Temperature, ESR vs Temperature.



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