

Reliability Performance

Reliability Experiment For Electrical

Test Item	Test Conditions	Standard Source
Operating Temperature	-25°C to +125°C	
Humidity Test	+40°C±2°C, humidity of 90%±5% (Total 96 hours)	MIL-STD-202G Method 103B Test Condition B
High Temperature Test	1. Temperature : +125°C±2°C 2. Test time : 48±2 hrs	IEC 68-2 Test Condition B
Low Temperature Test	1. Temperature : -25°C±2°C 2. Test time : 48±2 hrs	IEC 68-2 Test Condition A
Thermal shock	+125°C±5°C (30 minutes) ~ -25 ± 5°C (30 minutes), temperature switch time: 5 minutes (total 50 cycles)	MIL-STD-202G Method 107G Test Condition B-2
Life Test	+70°C±5°C (250 Hours)	MIL-STD-202G Method 108A Test Condition B

Reliability Experiment For Physical

Test Item	Test Conditions	Standard Source
Vibration Test	10-55-10HZ, amplitude: 1.5mm, direction: X, Y, Z axes, each axis 2 hours (total 6 hours)	MIL-STD-202G Method 201A
Solder Heat Resistance Test	IR/convection reflow:Peak Temp 260±5°C for 30Sec in air, Through 2 Cycle. Temperature Ramp:+1~4°C/sec; Above 217°C, must keep 90 s - 120 s.	J-STD-020D Classification Reflow Profiles
Solder Ability Test	Soak in 245 °C solder pot of 3Sec, PAD must have 95% above coverage.	J-STD-003B

TYPICAL RoHS REFLOW PROFILE

