RELIABILITY TEST PROCEDURES FOR ECX-2236B2 Series



NO. TEST NAME

TEST PROCEDURES

REQUIREMENTS

1	зноск	Drop 3 times from the height of 100cm onto hard wooden board.	Frequency Drift ±5 PPM Max. Resistance Drift ±15% Max.
2	VIBRATION	Vibration Frequency: 10 to 55Hz, 1.5mm, full wave Cycle: 2 min. Direction: X.Y.Z. Time: 2 hours in each direction	Frequency Drift ±5 PPM Max. Resistance Drift ±15% Max.
3	STORAGE IN HIGH TEMPERATURE	+125 ±2°C for 500 hours.	Frequency Drift ±5 PPM Max. Resistance Drift ±15% Max.
4	STORAGE IN LOW TEMPERATURE	-55 ±2⁰C for 500 hours.	Frequency Drift ±5 PPM Max. Resistance Drift ±15% Max.
5	RESISTANCE TO SOLDERING HEAT	Pass through reflow for 10s (Max.) which is pre-heated at a temperature of 160°C ± 10°C and 240°C ± 5°C	Frequency Drift ±5 PPM Max. Resistance Drift ±15% Max.
6	HUMIDITY	+ 60 ± 2°C in humidity 95% for 500 hours.	Frequency Drift ±5 PPM Max. Resistance Drift ±15% Max.
7	THERMAL SHOCK	Supply 500 cycles as follows: Temperature shift shall be done within 30 sec. -55 ±2°C +125 ±2°C (30 min) <> (30 min)	Frequency Drift ±5 PPM Max. Resistance Drift ±15% Max.
8	TEMPERATURE CYCLE	Supply 100 cycles as follows: +125 +5 -2°C 30 min. +25 ±5°C 10 min. -55 +3-5°C 30 min. 1 Cycle	Frequency Drift ±5 PPM Max. Resistance Drift ±15% Max.
9	SEALING TIGHTNESS MIL-STD 202F	1) Dipping in Florinert at: +125 ±5⁰C for 5 min. (Gross Leak)	There are no visual abnormalities.
	METHOD 112D TEST C AND D	2) Leak rate shall be measured by using: Helium leak Detector (Fine Leak)	There are no visual abnormalities.
10	Mean Time Between Failures (MTBF)	Ea x (1/T1-1/T2) / K MTBF (25°C) = <u>HsXe°Ce</u> π	16396600 Hours