



LHA10F series Reliability test results

Feb 8, 2022
US DESIGN DEPT.

Approved : Tetsukazu Okamoto

Prepared : Kyouhei Yamamoto

No.	Test Item	Testing conditions	Conditions of acceptability	Number of samples	Number of failures
1	Heat cycle test	(1) -40°C ~ 125°C 30minutes each (2) 800cycles	(1)No degradation of electric characteristics after test. (2)No crack at solder joint.	1	0
2	High temperature/ High humidity bias test	(1) Ta=85°C, RH=85% (2) At rated input (3) Load 0% (4) 1,000hours	(1)No degradation of electric characteristics after test.	1	0
3	Vibration test	(1) f=10~55Hz, 19.6m/s ² (2G) (2) 3minutes period (3) 60minutes each X, Y and Z axis	(1)No degradation of electric characteristics after test. (2)No crack at solder joint. (3)No mechanical damage of appearance.	3	0
4	Impact test	(1) 196.1m/s ² (20G), 11ms (2) Once each X, Y and Z axis	(1)No degradation of electric characteristics after test. (2)No crack at solder joint. (3)No thermal damage of appearance.	3	0
5	Electrostatic discharge immunity test	(1) Rated load. (2) Ambient temp 25±10°C (3) Contact Discharge : Level 4 (8kV) (4) Air Discharge : Level 4 (15kV) (5) Applied to Input,Output,FG.	(1)No protection circuit fail. (2)No output voltage drop with control circuit fail. (3)No function fail.	1	0