参考資料

COSEL

RBC300F series Reliability test results

Aug 26, 2020
US DESIGN DEPT.

Approved : Satoshi Uetani

Prepared : Keito Tatsushima

No.	Test Item	Testing conditions	Conditions of acceptability	Number of samples	Number of failures
1	Heat cycle test	(1) −40℃ ～ 125℃ 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℃, RH=85% (2) At rated input (3) Load 0% (4) 1000hours	(1)No degradation of electric characteristics after test.	1	0
3	Vibration test	(1) f=10～150Hz, 29.4m/s2(3G) (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) 294.2 m/s2(30G), 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	Static electricity immunity test	(1) Rated load (2) Ambient temp. 25±10℃ (3) Contact Discharge : Level 4 (8kV) (4) Air Discharge : Level 4 (15kV) (5) Applied to Chassis, Input, Output and FG terminal	(1)No protection circuit fail. (2)No output voltage drop with control circuit fail. (3)No any other function failure.	1	0