



## PCA1000F series Reliability Test result

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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	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=10~150Hz,29.4m/s <sup>2</sup> (3G) (2) 3minutes period (3) 60 minutes each X, Y and Z axis	(1)No degradation of electric characteristics after test. (2)No crack at solder joint. (3)No marked damage of appearance.	3	0
4	Impact test	(1) 294.2m/s <sup>2</sup> (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 marked damage of appearance.	3	0
5	Static electricity 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 Chassis, Input, Output and FG terminal	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure.	1	0