



# PCA600F-□-P2 series Reliability Test result

June 11<sup>th</sup>, 2019Cosel Co., Ltd.  
US Design Dept.

Approved : Koji Todo  
Koji Todo

Prepared : Takayuki Yamamoto  
Takayuki 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.	1	0
2	High temperature/ High humidity bias test	(1) Ta=85°C,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,24.5m/s <sup>2</sup> (2.5G) (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