



# PJA100F series Reliability Test result

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Design engineering dep.

Approved : Yukihiro Takehashi  
Yukihiro Takehashi

Prepared : Atsushi Nishikawa  
Atsushi Nishikawa

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) 1000cycles	(1)No degradation of electric characteristics after test.	3	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) $f=10\sim 150\text{Hz}$ , $24.5\text{m/s}^2$ (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) $294.2\text{m/s}^2$ (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) Applied voltage $\pm 8\text{kV}$ (2) At rated input and load	(1)No protection circuit failure. (2)No output voltage drop with control circuit ailure. (3)No any other function failure.	1	0