For Reference

COSEL

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New Product Development Dept.1

PDA75F series Reliability test results

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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, 30 minute each (2) 800 cycles	(1) No degradation of electrical characteristics after test. (2) No cracks occur at the solder joints.	2	0
2	High temperature/ High humidity bias test	(1) Ta = 85 °C, RH = 85% (2) At rated input (3) Load 0% (4) 1,000 hours	(1) No degradation of electrical characteristics after test.	1	0
3	Vibration test	(1) f = 10-150 Hz, 29.4 m/s^2 (3 G) (2) 3-minute period (3) 60 minutes along the X, Y, and Z axes	(1) No degradation of electrical characteristics after test. (2) No cracks occur at the solder joints. (3) No visible mechanical damage.	3	0
4	Impact test	(1) 294 m/s^2 (30 G), 11 ms (2) Once along each of the X, Y, and Z axes	(1) No degradation of electrical characteristics after test. (2) No cracks occur at the solder joints. (3) No visible mechanical damage.	3	0
5	Electrostatic discharge immunity test	(1) Rated input (2) Rated load (3) Contact discharge: Level 4 (8 kV) (4) Air discharge: Level 4 (15 kV)	(1) No protection-circuit failure occurs. (2) No output voltage drop with control circuit fail. (3) No functional failure occurs.	1	0