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Cosel Co., Ltd.
US Design Dept.

AEA1000F 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 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°C, RH=85% (2) At rated input (AC200V) (3) Load 0% (4) 1000hours	(1)No degradation of electric characteristics after test.	1	0
3	Vibration test	(1) $f=10\sim150\text{Hz}$, $29.4\text{m/s}^2(3\text{G})$ (2) 3 minutes 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 mechanical damage of appearance.	3	0
4	Impact test	(1) $294\text{m/s}^2(30\text{G})$, 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 mechanical damage of appearance.	3	0
5	Electrostatic discharge immunity test	(1) At rated input and load (2) Contact Discharge : Level4(8kV) (3) Air Discharge : Level4(15kV) (4) Applied to input, output, FG and Chassis	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure.	1	0