



# LHA300F series Reliability test results

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US DESIGN DEPT.

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No.	Test Item	Testing conditions	Conditions of acceptability	Number of samples	Number of failures
1	Heat cycle test	(1) $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ 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) $T_a=85^{\circ}\text{C}$ , RH=85% (2) At rated input (3) Load 0% (4) 500hours	(1)No degradation of electric characteristics after test.	1	0
3	Vibration test	(1) $f=10\sim 75\text{Hz}$ , $19.6\text{m/s}^2(2\text{G})$ (2) 3minutes period (3) 60minutes 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) $294.2\text{m/s}^2(30\text{G})$ , 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 thermal damage of appearance.	3	0
7	Static electricity immunity test	(1) Applied voltage $\pm 8\text{kV}$ (2) At rated input and load	(1)No protection circuit fail. (2)No output voltage drop with control circuit fail. (3)No any other function fail.	1	0