



**CHS120 series Reliability test results**

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OS DESIGN DEPT.2

Approved : *Junichi Hatagishi*  
Junichi Hatagishi

Prepared : *Ryosuke Kawai*  
Ryosuke Kawai

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.	5	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.	3	0
3	Vibration test	(1) f=10~150Hz, 49.0m/s <sup>2</sup> (5G) (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) 196.1m/s <sup>2</sup> (20G), 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
5	Soldering heat test	(1) Soldering iron 260°C, 15 seconds (2) Mounting board : t=1.6mm / FR4	(1)No crack at solder joint. (2)No marked damage of appearance.	1	0
6	Pin strength test	(1) Weight : 1.0kg (2) Bending angle : 90 deg., total 180 deg. (3) 1 cycle	(1)No degradation of electric characteristics after test. (2)No degradation of terminal	1	0
7	Static electricity immunity test	(1) Applied voltage ±8kV (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