

R1118K Series Reliability Test Report

301118K0E-Ver.A

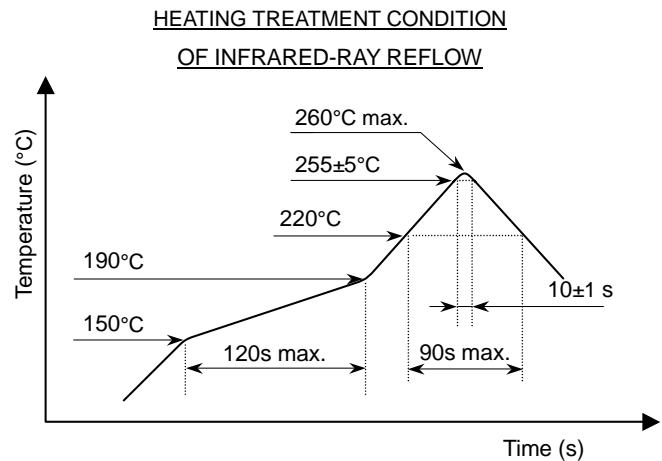
FUNCTION : Voltage Regulator ICs
 PACKAGE : DFN(PLP)1612-4B ... Au plate, Halogen free resin

No.	TEST ITEM	TEST CONDITION	(*)PRE-CONDITION	TIME	r/n
1	High Temp. Operating Life	Ta=125°C VDD=Vopt max. Static	Non	1000h	0/32
2	Temp. Humidity Bias	Ta=85°C RH=85% VDD=Vopt max. Static	(1)+(2)	1000h	0/22
3	High Temp. Storage	Ta=150°C	Non	1000h	0/22
4	Low Temp. Storage	Ta=-65°C	Non	1000h	0/22
5	Temp. Humidity	Ta=85°C RH=85%	(1)+(2)	1000h	0/22
6	Temp. Cycle	Ta=-65 to 150°C (30-5-30min)	(1)+(2)	100cycles	0/11
7	Thermal Shock	Ta=-65 to 150°C (5min-10s-5min)	(1)+(2)	100cycles	0/11
8	USPCBT	Ta=125°C RH=85% 2X10 ⁵ Pa VDD=Vopt max. Static	(1)+(2)	100h	0/11
9	USPCT	Ta=125°C RH=85% 2X10 ⁵ Pa	(1)+(2)	100h	0/11
10	Resistance To Soldering Heat(1)	IR Reflow (See Fig.1)	(1)	3times	0/88
11	Resistance To Soldering Heat(2)	Ta=350°C (Soldering iron)	(1)	5s	0/11
12	Solderability by Solder Dip Method(1)	Ta=235°C (Solder: Sn-37Pb)	(3)	5s	0/11
13	Solderability by Solder Dip Method(2)	Ta=245°C (Solder: Sn-3.0Ag-0.5Cu)	(3)	5s	0/11
14	ESD(1)	MM C=200pF R=0 ohm ±200V	Non	5times	0/11
15	ESD(2)	HBM C=100pF R=1.5k ohm ±2.0kV	Non	3times	0/11
16	ESD(3)	CDM ±1.0kV	Non	Once	0/11
17	Latch-up	Pulse Current Injecting Method ±100mA	Non	Once	0/11

Criteria : The electrical characteristics prescribed in the individual specifications shall be satisfied.

- *) Pre-Condition
 The test shall be performed this pre-condition before testing.
- (1) Ta=85°C, RH=85%, storage 168h
 - (2) IR Reflow soldering heat stress (3times)
 - (3) In steam, storage=4h

[Moisture Sensitivity Level]
 MSL Level = 1 (J-STD-020)



Conclusion :The reliability result was good.