



12/4/2008

PACKAGE RELIABILITY REPORT
FOR

DS1922E, Batangas Assembly, RoHS Compliant, High Temp

Maxim Integrated Products

4401 South Beltwood Parkway
Dallas, TX 75244-3292

Prepared by:

A handwritten signature in black ink that reads "Guy A Rupp". The signature is cursive and appears to be "Guy" followed by "A" and "Rupp".

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Conclusion:

The following qualification successfully meets the quality and reliability standards required of all Maxim packages

In addition, Maxim's continuous reliability monitor program ensures that all outgoing assemblies will continue to meet Maxim's quality and reliability standards. The current status of the reliability monitor program can be viewed at <http://www.maxim-ic.com/TechSupport/dsreliability.html>.

Note: Due to the nature of the construction on this assembly, no operating life data is collected. Please see the respective product reports for this information.

The reliability data follows. Some of the data in this report may be generic. At the start of this data is a description of the assembly vehicle used to generate this reliability data. The next section is the detailed reliability data for each stress. If there are additional assemblies used as part of this report, a description of each will follow which includes the respective reliability data for that assembly. Where appropriate, preconditioning is performed before all stresses and the bond crater test unless otherwise noted. The reliability data section includes the latest data available.

Generic Assembly Information:

Assembly Site:	Batangas Assembly
Pin Count:	2
Package Type:	Puk Can F50 Insert Mold Bump, Battery w-SMT Crystal (RoHS)
Body Size:	68
Passivation:	Dupont/GE
RDL x UBM:	PCB; FR4
Ball Type:	High Pb Ball (Pb95/Sn5)
Encapsulation:	Underfill FP4527, Dexter Hysol Underfill Epoxy (Blue)
Solder Interconnect	NA
Flammability:	UL 94-V0
Moisture Sensitivity:	NA
Date Code Range:	0830 to 0830

DATE CODE: 0830 LOT NUMBER: MG362664QAL2 VEHICLE: DS1922E

STORAGE LIFE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
STORAGE LIFE	140C	300 HRS	76	0	
		Total:		0	

TEMPERATURE CYCLE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
TEMP CYCLE, 5' RAMP, 10' DWELL	15C TO +140C	600 CYS	77	0	
		Total:		0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
MOISTURE SOAK	60C/90% R.H.	300 HRS	77	0	
		Total:		0	

MECHANICAL LIFE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
MECHANICAL SHOCK	JESD22-B104-C CONDITION B	30 CYS	50	0	
		Total:		0	

MECHANICAL LIFE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
VIBRATION, VARIABLE FREQUENCY	JESD22-B103-B CONDITION 1	1 HRS	50	0	
Total:					0

DATE CODE: 0830

LOT NUMBER: MG362663QAL2

VEHICLE: DS1922E

STORAGE LIFE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
STORAGE LIFE	140C	300 HRS	77	0	
Total:					0

TEMPERATURE CYCLE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
TEMP CYCLE, 5' RAMP, 10' DWELL	15C TO +140C	600 CYS	77	0	
Total:					0

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
MOISTURE SOAK	60C/90% R.H.	300 HRS	77	0	
Total:					0

DATE CODE: 0830

LOT NUMBER: MG362662QAL2

VEHICLE: DS1922E

STORAGE LIFE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
STORAGE LIFE	140C	300 HRS	76	0	
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TEMPERATURE CYCLE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
TEMP CYCLE, 5' RAMP, 10' DWELL	15C TO +140C	600 CYS	76	0	
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UNBIASED MOISTURE RESISTANCE

DESCRIPTION	CONDITION	READPOINT	QTY	FAILS	FA#
MOISTURE SOAK	60C/90% R.H.	300 HRS	76	0	
Total:					0