



4/13/2009

**RELIABILITY MONITOR REPORT  
FOR**

**QFN Package**

**MAXIM Integrated Products**

**120 San Gabriel Dr.  
Sunnyvale, CA 94086**

**This Report was prepared by  
Maxim Reliability Engineering**

**Summary:**

The data in the tables that follow was generated as the result of an on-going Package Reliability Monitor. The specific assemblies included in this package monitor are:

ASSY SITE	PINS	PACKAGE		
	14	TDFN (Pb-Free)		48 TQFN (Pb-Free)
	48	TQFN Exposed Pad (Pb-Free)	ASAT-DongGuan (C)	40 TQFN (Pb-Free)
ASAT-DongGuan (C)	48	TQFN (Pb-Free)	ASAT-DongGuan (C)	48 TQFN Exposed Pad (Pb-Free)
ATK (Amkor, K)	14	TDFN (Pb-Free)	Hana AYUTHAYA	28 TQFN (Pb-Free)
ISPL (ATEC, PI)	8	TDFN (Pb-Free)	Unisem Malaysia	8 TDFN (Pb-Free)
UTL (NSEB) UTAC	10	TDFN	UTL (NSEB) UTAC	6 TDFN (Pb-Free)
UTL (NSEB) UTAC	8	TDFN (Pb-Free)	UTL (NSEB) UTAC	10 TDFN (Pb-Free)
UTL (NSEB) UTAC	14	TDFN (Pb-Free)	UTL (NSEB) UTAC	28 TQFN (Pb-Free)
UTL (NSEB) UTAC	32	TQFN (Pb-Free)	UTL (NSEB) UTAC	40 TQFN (Pb-Free)
UTL (NSEB) UTAC	56	TQFN (Pb-Free)	UTL (NSEB) UTAC	48 TQFN Exposed Pad (Pb-Free)

The calculated failure rate for this assembly is:

**FAILURE RATE: MTTF (YRS): 135728 FITS: 0.8**

The parameters used to calculate this failure rate are as follows:

**Cf: 60% Ea: 0.7 Tu: 25 °C**

The reliability data follows. 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. The reliability data section includes the latest data available. This report covers data between 10/1/2007 and 9/30/2008.

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**Assembly Information:**

Package Type: TDFN  
 Date Code Range: 0652 to 0828

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**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0704	DS3205	125C, 5.5 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0711	MAX8625AETD+	135C	192 HRS	50	0	
HIGH TEMP OP LIFE	0711	MAX8625AETD+	135C	192 HRS	50	0	
HIGH TEMP OP LIFE	0719	MAX8630XETD20+	135C	1000 HRS	48	0	
HIGH TEMP OP LIFE	0719	MAX8630XETD20+	135C	1000 HRS	48	0	
HIGH TEMP OP LIFE	0722	MAX8804ZETA+	135C	192 HRS	48	0	
HIGH TEMP OP LIFE	0723	DS2786	125C, 5.5 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0728	MAX4990ETD+	135C	192 HRS	48	0	
HIGH TEMP OP LIFE	0728	MAX4990ETD+	135C	192 HRS	48	0	
HIGH TEMP OP LIFE	0738	DS1841	125C, 5.5 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0804	DS4424	125C, 5.5 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0804	DS4424	125C, 5.5 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0811	MAX4981ETA+	135C	192 HRS	48	0	
HIGH TEMP OP LIFE	0824	DS2786B	125C, 5.5 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0828	MAX1558ETB+T	135C	500 HRS	80	0	
<b>Total:</b>						<b>0</b>	

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**PACKAGE TESTS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
ULTRASOUND	0652	MAX6397MATA+	J-STD-020		22	0	
BOND STRENGTH	0704	MAX6397LATA+	> 5 GMS	30 WIRES	5	0	
ULTRASOUND	0714	MAX6495ATT+T	J-STD-020		22	0	
PHYSICAL DIMENSIONS	0714	MAX6495ATT+T	JESD22-B100		10	0	
ULTRASOUND	0728	MAX8586ETA+T	J-STD-020		22	0	
BOND STRENGTH	0733	MAX6397LATA+	> 5 GMS	30 WIRES	5	0	
ULTRASOUND	0737	MAX8586ETA+	J-STD-020		22	0	
					<b>Total:</b>	<b>0</b>	

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**PRECONDITIONING LEVEL 1**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
CONVECTION REFLOW	0652	MAX6397MATA+	260C +0/-5C	3 PASS	242	0	
CONVECTION REFLOW	0704	MAX6397LATA+	260C +0/-5C	3 PASS	22	0	
CONVECTION REFLOW	0713	MAX6495ATT+T	260C +0/-5C	3 PASS	260	0	
CONVECTION REFLOW	0714	MAX6495ATT+T	260C +0/-5C	3 PASS	250	0	
CONVECTION REFLOW	0733	MAX6397LATA+	260C +0/-5C	3 PASS	260	0	
CONVECTION REFLOW	0737	MAX8586ETA+	260C +0/-5C	3 PASS	250	0	
CONVECTION REFLOW	0810	MAX1976AETA130+ T	260C +0/-5C	3 PASS	260	0	
CONVECTION REFLOW	0810	MAX1976AETA130+ T	260C +0/-5C	3 PASS	260	0	
CONVECTION REFLOW	0810	MAX1976AETA130+ T	260C +0/-5C	3 PASS	260	0	
					<b>Total:</b>	<b>0</b>	

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**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0719	MAX8630XETD20+	150C	500 HRS	80	0	
STORAGE LIFE	0719	MAX8630XETD20+	150C	500 HRS	80	0	
STORAGE LIFE	0719	MAX8630XETD20	150C	1000 HRS	80	0	
STORAGE LIFE	0719	MAX8630XETD20	150C	1000 HRS	80	0	
STORAGE LIFE	0733	MAX6397LATA+	150C	1000 HRS	45	0	
STORAGE LIFE	0810	MAX1976AETA130+ T	150C	1000 HRS	80	0	
					<b>Total:</b>	<b>0</b>	

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**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	0652	MAX6397MATA+	-65C TO 150C	1000 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0704	MAX6397LATA+	-65C TO 150C	1000 CYS	77	0	

TEMP CYCLE, 5' RAMP, 10' DWELL	0719	MAX8630XETD20+	-65C TO 150C	1000	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	0719	MAX8630XETD20+	-65C TO 150C	1000	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	0737	MAX8586ETA+	-65C TO 150C	1000	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	0751	MAX4990ETD+	-65C TO 150C	1000	CYS	500	0
TEMP CYCLE, 5' RAMP, 10' DWELL	0751	MAX4990ETD+	-65C TO 150C	1000	CYS	500	0
TEMP CYCLE, 5' RAMP, 10' DWELL	0810	MAX1976AETA130+ T	-65C TO 150C	1000	CYS	79	0
TEMP CYCLE, 5' RAMP, 10' DWELL	0810	MAX1976AETA130+ T	-65C TO 150C	1000	CYS	80	0
<b>Total:</b>						<b>0</b>	<b>0</b>

### TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE	0652	MAX6397MATA+	130C, 85% R.H.	100	HRS	20	0
BIASED MOISTURE	0704	MAX6397LATA+	130C, 85% R.H.	96	HRS	17	0
BIASED MOISTURE	0713	MAX6495ATT+T	130C, 85% R.H.	100	HRS	77	0
BIASED MOISTURE	0713	MAX6495ATT+T	130C, 85% R.H.	96	HRS	31	0
BIASED MOISTURE	0714	MAX6495ATT+T	130C, 85% R.H.	96	HRS	45	0
BIASED MOISTURE	0719	MAX8630XETD20+	130C, 85% R.H.	96	HRS	50	0
BIASED MOISTURE	0719	MAX8630XETD20+	130C, 85% R.H.	96	HRS	50	0
BIASED MOISTURE	0733	MAX6397LATA+	130C, 85% R.H.	96	HRS	17	0
BIASED MOISTURE	0810	MAX1976AETA130+ T	130C, 85% R.H.	96	HRS	45	0
BIASED MOISTURE	0810	MAX1976AETA130+ T	130C, 85% R.H.	96	HRS	44	0
BIASED MOISTURE	0810	MAX1976AETA130+ T	130C, 85% R.H.	96	HRS	50	0
<b>Total:</b>						<b>0</b>	<b>0</b>

### UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
MOISTURE SOAK	0652	MAX6397MATA+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	0704	MAX6397LATA+	130C, 85% R.H.	96	HRS	77	0
MOISTURE SOAK	0713	MAX6495ATT+T	130C, 85% R.H.	100	HRS	77	0
MOISTURE SOAK	0714	MAX6495ATT+T	130C, 85% R.H.	96	HRS	77	0
MOISTURE SOAK	0733	MAX6397LATA+	130C, 85% R.H.	100	HRS	77	0
<b>Total:</b>						<b>0</b>	<b>0</b>

### W/E ENDURANCE AND DATA RET'N

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0738	DS1841	150C	1000	HRS	77	0
WRITE CYCLE STRESS (KCYS)	0738	DS1841	25 C, 5.5 VOLTS	200	KCYS	77	0
STORAGE LIFE	0824	DS2786B	150C	1000	HRS	77	0

WRITE CYCLE STRESS (CYS)	0824	DS2786B	50 C, 5.5 VOLTS (PSA), 15.0 VOLTS (PSB)	100	CYS	77	0
						<b>Total:</b>	<b>0</b>

**Assembly Information:**

Package Type: TQFN (Pb-Free)  
 Date Code Range: 074 to 0816

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0725	MAX3624UTJ+	135C	192 HRS	48	0	
HIGH TEMP OP LIFE	0726	DS3690	125C, 3.6 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0737	MAX9714ETJ+	135C	1000 HRS	45	0	
HIGH TEMP OP LIFE	0743	MAX7477CTI+	135C	1000 HRS	24	0	
HIGH TEMP OP LIFE	0743	MAX7477CTI+	135C	500 HRS	24	0	
HIGH TEMP OP LIFE	0743	MAX7477CTI+	135C	192 HRS	24	0	
HIGH TEMP OP LIFE	0749	MAX1358BETL+	135C	192 HRS	80	0	
HIGH TEMP OP LIFE	0749	MAX1358BETL+	135C	1000 HRS	80	0	
HIGH TEMP OP LIFE	0749	MAX1358BETL+	135C	1000 HRS	80	0	
HIGH TEMP OP LIFE	0749	MAX1358BETL+	135C	192 HRS	80	0	
HIGH TEMP OP LIFE	0802	MAX8631XETI+	135C	192 HRS	80	0	
						<b>Total:</b>	<b>0</b>

**PACKAGE TESTS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
SOLDERABILITY (Pb-Free)	074	MAX1842ETI+	JESD22-B102, COND C (245C)		17	0	
PHYSICAL DIMENSIONS	0704	MAX2171ETL+	JESD22-B100		10	0	
SOLDERABILITY (Pb-Free)	0704	MAX2171ETL+	JESD22-B102, COND C (245C)		15	0	
SOLDERABILITY (Pb-Free)	0742	MAX1842ETI+	JESD22-B102, COND C (245C)		17	0	
SOLDERABILITY (Pb-Free)	0742	MAX1842ETI+	JESD22-B102, COND C (245C)		17	0	
SOLDERABILITY (Pb-Free)	0809	MAX1781ETM+	JESD22-B102, COND C (245C)		15	0	
SOLDERABILITY (Pb-Free)	0809	MAX1781ETM+	JESD22-B102, COND C (245C)		15	0	
SOLDERABILITY (Pb-Free)	0809	MAX1781ETM+	JESD22-B102, COND C (245C)		15	0	
SOLDERABILITY (Pb-Free)	0809	MAX1781ETM+	JESD22-B102, COND C (245C)		15	0	
SOLDERABILITY (Pb-Free)	0809	MAX1781ETM+	JESD22-B102, COND C (245C)		15	0	
PHYSICAL DIMENSIONS	0816	MAX1782ETM+	JESD22-B100		15	0	
PHYSICAL DIMENSIONS	0816	MAX1782ETM+	JESD22-B100		15	0	
SOLDERABILITY (Pb-Free)	0816	MAX1782ETM+	JESD22-B102, COND C (245C)		15	0	

SOLDERABILITY (Pb-Free)	0816	MAX1782ETM+	JESD22-B102, COND C (245C)			15	0
BOND STRENGTH	0816	MAX1782ETM+	> 5 GMS	30	WIRES	10	0
BOND STRENGTH	0816	MAX1782ETM+	> 5 GMS	30	WIRES	10	0
PHYSICAL DIMENSIONS	0816	MAX1782ETM+	JESD22-B100			15	0
PHYSICAL DIMENSIONS	0816	MAX1782ETM+	JESD22-B100			15	0
SOLDERABILITY (Pb-Free)	0816	MAX1782ETM+	JESD22-B102, COND C (245C)			15	0
SOLDERABILITY (Pb-Free)	0816	MAX1782ETM+	JESD22-B102, COND C (245C)			15	0
PHYSICAL DIMENSIONS	0816	MAX1782ETM+	JESD22-B100			15	0
PHYSICAL DIMENSIONS	0816	MAX1782ETM+	JESD22-B100			15	0
SOLDERABILITY (Pb-Free)	0816	MAX1782ETM+	JESD22-B102, COND C (245C)			15	0
SOLDERABILITY (Pb-Free)	0816	MAX1782ETM+	JESD22-B102, COND C (245C)			15	0
<b>Total:</b>						<b>0</b>	<b>0</b>

### PRECONDITIONING LEVEL 1

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
CONVECTION REFLOW	0737	MAX9714ETJ+	260C +0/-5C	3	PASS	140	0
CONVECTION REFLOW	0742	MAX1842ETI+	260C +0/-5C	3	PASS	250	0
CONVECTION REFLOW	0742	MAX1842ETI+	260C +0/-5C	3	PASS	250	0
CONVECTION REFLOW	0742	MAX1842ETI+	260C +0/-5C	3	PASS	250	0
CONVECTION REFLOW	0743	MAX7477CTI+	260C +0/-5C	3	PASS	300	0
CONVECTION REFLOW	0749	MAX1358BETL+	260C +0/-5C	3	PASS	300	0
CONVECTION REFLOW	0749	MAX1358BETL+	260C +0/-5C	3	PASS	300	0
CONVECTION REFLOW	0802	MAX8631XETI+	260C +0/-5C	3	PASS	50	0
CONVECTION REFLOW	0805	MAX4928ETN+	260C +0/-5C	3	PASS	227	0
CONVECTION REFLOW	0805	MAX4928ETN+	260C +0/-5C	3	PASS	227	0
CONVECTION REFLOW	0809	MAX1781ETM+	260C +0/-5C	2	PASS	150	0
CONVECTION REFLOW	0809	MAX1781ETM+	260C +0/-5C	2	PASS	150	0
CONVECTION REFLOW	0809	MAX1781ETM+	260C +0/-5C	2	PASS	150	0
CONVECTION REFLOW	0809	MAX1781ETM+	260C +0/-5C	2	PASS	150	0
CONVECTION REFLOW	0809	MAX1781ETM+	260C +0/-5C	3	PASS	150	0
CONVECTION REFLOW	0809	MAX1781ETM+	260C +0/-5C	3	PASS	150	0
CONVECTION REFLOW	0816	MAX1782ETM+	260C +0/-5C	3	PASS	250	0
CONVECTION REFLOW	0816	MAX1782ETM+	260C +0/-5C	3	PASS	250	0
CONVECTION REFLOW	0816	MAX1782ETM+	260C +0/-5C	3	PASS	250	0
CONVECTION REFLOW	0816	MAX1782ETM+	260C +0/-5C	3	PASS	250	0
<b>Total:</b>						<b>0</b>	<b>0</b>

### SOLDER HEAT

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
SOLDER HEAT	0742	MAX1842ETI+	260 C, 10SEC	1	PASS	17	0
SOLDER HEAT	0742	MAX1842ETI+	260 C, 10SEC	1	PASS	17	0

SOLDER HEAT	0742	MAX1842ETI+	260 C, 10SEC	1	PASS	17	0
SOLDER HEAT	0816	MAX1782ETM+	260 C, 10SEC	1	PASS	15	0
SOLDER HEAT	0816	MAX1782ETM+	260 C, 10SEC	1	PASS	15	0
SOLDER HEAT	0816	MAX1782ETM+	260 C, 10SEC	1	PASS	15	0
SOLDER HEAT	0816	MAX1782ETM+	260 C, 10SEC	1	PASS	15	0
SOLDER HEAT	0816	MAX1782ETM+	260 C, 10SEC	1	PASS	15	0
<b>Total:</b>						<b>0</b>	<b>0</b>

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### SOLDER SHOCK

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
SOLDER SHOCK	0742	MAX1842ETI+	300C	1	PASS	17	0
SOLDER SHOCK	0742	MAX1842ETI+	300C	1	PASS	17	0
SOLDER SHOCK	0742	MAX1842ETI+	300C	1	PASS	17	0
SOLDER SHOCK	0816	MAX1782ETM+	300C	1	PASS	15	0
SOLDER SHOCK	0816	MAX1782ETM+	300C	1	PASS	15	0
SOLDER SHOCK	0816	MAX1782ETM+	300C	1	PASS	15	0
SOLDER SHOCK	0816	MAX1782ETM+	300C	1	PASS	15	0
SOLDER SHOCK	0816	MAX1782ETM+	300C	1	PASS	15	0
SOLDER SHOCK	0816	MAX1782ETM+	300C	1	PASS	15	0
<b>Total:</b>						<b>0</b>	<b>0</b>

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### STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0737	MAX9714ETJ+	150C	1000 HRS	80	0	
STORAGE LIFE	0742	MAX1842ETI+	150C	1000 HRS	80	0	
STORAGE LIFE	0742	MAX1842ETI+	150C	1000 HRS	80	0	
STORAGE LIFE	0742	MAX1842ETI+	150C	1000 HRS	80	0	
STORAGE LIFE	0743	MAX7477CTI+	150C	1000 HRS	80	0	
STORAGE LIFE	0743	MAX7477CT1	150C	500 HRS	80	0	
STORAGE LIFE	0749	MAX1358BETL+	150C	1000 HRS	80	0	
STORAGE LIFE	0749	MAX1358BETL+	150C	1000 HRS	80	0	
STORAGE LIFE	0805	MAX4928AETN+	150C	1000 HRS	77	0	
STORAGE LIFE	0805	MAX4928AETN+	150C	1000 HRS	77	0	
STORAGE LIFE	0805	MAX4928AETN+	150C	1000 HRS	77	0	
STORAGE LIFE	0816	MAX1782ETM+	150C	1000 HRS	80	0	
STORAGE LIFE	0816	MAX1782ETM+	150C	500 HRS	80	0	
STORAGE LIFE	0816	MAX1782ETM+	150C	500 HRS	80	0	
STORAGE LIFE	0816	MAX1782ETM+	150C	1000 HRS	80	0	
STORAGE LIFE	0816	MAX1782ETM+	150C	500 HRS	80	0	
STORAGE LIFE	0816	MAX1782ETM+	150C	500 HRS	80	0	
STORAGE LIFE	0816	MAX1782ETM+	150C	1000 HRS	80	0	
STORAGE LIFE	0816	MAX1782ETM+	150C	1000 HRS	80	0	
<b>Total:</b>						<b>0</b>	<b>0</b>

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**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	0725	DS3690	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0726	DS3690	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0726	DS3690	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0737	MAX9714ETJ+	-65C TO 150C	500 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0737	MAX9714ETJ+	-65C TO 150C	1000 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0742	MAX1842ETI+	-65C TO 150C	1000 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0742	MAX1842ETI+	-65C TO 150C	1000 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0742	MAX1842ETI+	-65C TO 150C	1000 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0743	MAX7477CTI+	-65C TO 150C	1000 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0743	MAX7477CTI	-65C TO 150C	500 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0743	MAX7477CT1	-65C TO 150C	200 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0749	MAX1358BETL+	-65C TO 150C	1000 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0749	MAX1358BETL+	-65C TO 150C	1000 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0805	MAX4928AETN	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0805	MAX4928AETN+	-65C TO 150C	500 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0805	MAX4928AETN	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0805	MAX4928AETN+	-65C TO 150C	500 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0805	MAX4928AETN+	-65C TO 150C	500 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0809	MAX1781ETM+	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0809	MAX1781ETM+	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0809	MAX1781ETM+	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0809	MAX1781ETM+	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0809	MAX1781ETM+	-65C TO 150C	1000 CYS	76	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0809	MAX1781ETM+	-65C TO 150C	1000 CYS	76	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0816	MAX1782ETM+	-65C TO 150C	1000 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0816	MAX1782ETM+	-65C TO 150C	1000 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	0816	MAX1782ETM+	-65C TO 150C	1000 CYS	80	0	



TEMP CYCLE, 5' RAMP, 10' DWELL	0816	MAX1782ETM+	-65C TO 150C	1000	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	0816	MAX1782ETM+	-65C TO 150C	497	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	0816	MAX1782ETM+	-65C TO 150C	497	CYS	77	0
<b>Total:</b>						<b>0</b>	<b>0</b>

#### TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE	0704	MAX2171ETL+	130C, 85% R.H.	96	HRS	32	0
BIASED MOISTURE	0737	MAX9714ETJ+	130C, 85% R.H.	100	HRS	50	0
BIASED MOISTURE	0742	MAX1842ETI+	130C, 85% R.H.	96	HRS	50	0
BIASED MOISTURE	0742	MAX1842ETI+	130C, 85% R.H.	96	HRS	50	0
BIASED MOISTURE	0742	MAX1842ETI+	130C, 85% R.H.	96	HRS	50	0
BIASED MOISTURE	0743	MAX7477CT1	130C, 85% R.H.	96	HRS	45	0
BIASED MOISTURE	0749	MAX1358BETL+	130C, 85% R.H.	96	HRS	48	0
BIASED MOISTURE	0749	MAX1358BETL+	130C, 85% R.H.	96	HRS	48	0
BIASED MOISTURE	0809	MAX1781ETM+	130C, 85% R.H.	96	HRS	50	0
BIASED MOISTURE	0809	MAX1781ETM+	130C, 85% R.H.	96	HRS	50	0
BIASED MOISTURE	0809	MAX1781ETM+	130C, 85% R.H.	96	HRS	50	0
BIASED MOISTURE	0809	MAX1781ETM+	130C, 85% R.H.	96	HRS	50	0
BIASED MOISTURE	0809	MAX1781ETM+	130C, 85% R.H.	96	HRS	45	0
BIASED MOISTURE	0809	MAX1781ETM+	130C, 85% R.H.	96	HRS	45	0
BIASED MOISTURE	0816	MAX1782ETM+	130C, 85% R.H.	96	HRS	50	0
BIASED MOISTURE	0816	MAX1782ETM+	130C, 85% R.H.	96	HRS	50	0
BIASED MOISTURE	0816	MAX1782ETM+	130C, 85% R.H.	96	HRS	50	0
BIASED MOISTURE	0816	MAX1782ETM+	130C, 85% R.H.	96	HRS	50	0
BIASED MOISTURE	0816	MAX1782ETM+	130C, 85% R.H.	96	HRS	45	0
BIASED MOISTURE	0816	MAX1782ETM+	130C, 85% R.H.	96	HRS	45	0
<b>Total:</b>						<b>0</b>	<b>0</b>

#### UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HAST, NO BIAS	0725	DS3690	130C, 85% R.H.	96	HRS	77	0
HAST, NO BIAS	0726	DS3690	130C, 85% R.H.	96	HRS	77	0
HAST, NO BIAS	0726	DS3690	130C, 85% R.H.	96	HRS	77	0
<b>Total:</b>						<b>0</b>	<b>0</b>

#### W/E ENDURANCE AND DATA RET'N

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0750	DS3510	150C	1000	HRS	77	0
STORAGE LIFE	0750	DS3510	150C	1000	HRS	77	0
WRITE CYCLE STRESS (KCYS)	0750	DS3510	70 C, 5.5V (PSA) & 15.0V (PSB)	50	KCYS	77	0
WRITE CYCLE STRESS (KCYS)	0750	DS3510	70 C, 5.5V (PSA) & 15.0V (PSB)	50	KCYS	77	0
<b>Total:</b>						<b>0</b>	<b>0</b>

**FAILURE RATE: MTTF (YRS): 135728 FITS: 0.8**