



4/17/2012

**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		
ASE Chung-Li	16	TQFN (Pb-Free)	ASE Chung-Li	20 TQFN (Pb-Free)
ASE Chung-Li	24	TQFN (Pb-Free)	ASE Chung-Li	28 TQFN (Pb-Free)
ASE Chung-Li	32	TQFN (Pb-Free)	ASE Chung-Li	36 TQFN (Pb-Free)
ASE Chung-Li	42	TQFN (Pb-Free)	ASE Chung-Li	44 TQFN (Pb-Free)
ASE Chung-Li	48	TQFN (Pb-Free)	ASE Chung-Li	56 TQFN (Pb-Free)
ATK	8	QFN (Pb-Free)	ATK	48 QFN (Pb-Free)
ATK	48	TQFN (Pb-Free)	Carsem-S	23 QFN (Pb-Free)
Carsem-S	20	TQFN (Pb-Free)	FLIPCHIP TECH	48 TQFN (Pb-Free)
Unisem Malaysia	24	TQFN (Pb-Free)	UTACDG	8 TQFN (Pb-Free)
UTACDG	16	TQFN (Pb-Free)	UTACDG	20 TQFN (Pb-Free)
UTACDG	24	TQFN (Pb-Free)	UTACDG	28 TQFN (Pb-Free)
UTACDG	36	TQFN (Pb-Free)	UTACDG	40 TQFN (Pb-Free)
UTACDG	48	TQFN (Pb-Free)	UTL	8 TQFN (Pb-Free)
UTL	16	TQFN (Pb-Free)	UTL	20 TQFN (Pb-Free)
UTL	24	TQFN (Pb-Free)	UTL	28 TQFN (Pb-Free)
UTL	32	TQFN (Pb-Free)	UTL	36 TQFN (Pb-Free)
UTL	40	TQFN (Pb-Free)	UTL	44 TQFN (Pb-Free)
UTL	48	TQFN (Pb-Free)	UTL	56 TQFN (Pb-Free)
UTL	16	TQFN Flip Chip		

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 228311 FITS: 0.5

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 4/1/2011 and 3/31/2012.

Assembly Information:

Package Type: QFN (Pb-Free)

Date Code Range: 1104 to 1130

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1104	MAX17492EGD+	135C	1000 HRS	43	0	
HIGH TEMP OP LIFE	1104	MAX17492EGD+	135C	1000 HRS	40	0	
HIGH TEMP OP LIFE	1104	MAX17492EGD+	135C	1000 HRS	45	0	
HIGH TEMP OP LIFE	1130	MAX15029AGA/VY+	135C	1000 HRS	79	0	
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1104	MAX17492EGD+	150C	1000 HRS	77	0	

STORAGE LIFE	1104	MAX17492EGD+	150C	1000 HRS	77	0
STORAGE LIFE	1104	MAX17492EGD+	150C	1000 HRS	77	0
STORAGE LIFE	1130	MAX15029AGA/VY+	150C	1000 HRS	80	0
Total:						0

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	1104	MAX17492EGD+	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1104	MAX17492EGD+	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1104	MAX17492EGD+	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1126	MAX16924GGM/VY+	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1130	MAX15029AGA/VY+	-65C TO 150C	1000 CYS	80	0	
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE	1130	MAX15029AGA/VY+	130C, 85% R.H.	100 HRS	80	0	
Total:						0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
MOISTURE SOAK	1126	MAX16924GGM/VY+	130C, 85% R.H.	100 HRS	15	0	
Total:						0	

Assembly Information:

Package Type: TQFN (Pb-Free)
Date Code Range: 1007 to 1205

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE		MAX14592EETI+	135C	1000 HRS	56	0	
HIGH TEMP OP LIFE	0549	MAX7326ATG+	135C	700 HRS	32	0	
HIGH TEMP OP LIFE	0906	MAX2042ETP+	135C	192 HRS	48	0	
HIGH TEMP OP LIFE	1007	MAX8904ETN+	135C	192 HRS	43	0	
HIGH TEMP OP LIFE	1025	MAX17130ETL+	135C	192 HRS	41	0	
HIGH TEMP OP LIFE	1025	MAX17130ETL+	135C	264 HRS	38	0	
HIGH TEMP OP LIFE	1035	MAX12005ETM+CF7	135C	192 HRS	24	0	
HIGH TEMP OP LIFE	1035	MAX12005ETM+CF7	135C	192 HRS	24	0	
HIGH TEMP OP LIFE	1038	MAX9851ETM+	135C	1000 HRS	45	0	
HIGH TEMP OP LIFE	1038	MAX9851ETM+	135C	1000 HRS	45	0	
HIGH TEMP OP LIFE	1038	MAX9851ETM+	135C	1000 HRS	45	0	

HIGH TEMP OP LIFE	1045	MAX3997ETM+	135C	192	HRS	48	0
HIGH TEMP OP LIFE	1047	MAX8798ETX+	135C	1000	HRS	46	0
HIGH TEMP OP LIFE	1047	MAX8798ETX+	135C	500	HRS	46	0
HIGH TEMP OP LIFE	1050	MAX14578AETI+	135C	192	HRS	76	0
HIGH TEMP OP LIFE	1050	MAX14578AETI+	135C	192	HRS	44	0
HIGH TEMP OP LIFE	1050	MAX14578AETI+	135C	600	HRS	44	0
HIGH TEMP OP LIFE	1051	MAX17149ETE+	135C	192	HRS	50	0
HIGH TEMP OP LIFE	1051	MAX17149ETE+	135C	192	HRS	48	0
HIGH TEMP OP LIFE	1052	MAX17114ETM+CB2	135C	1000	HRS	48	0
HIGH TEMP OP LIFE	1052	MAX17114ETM+CB2	135C	1000	HRS	48	0
HIGH TEMP OP LIFE	1102	MAX14583EETI+	135C	192	HRS	50	0
HIGH TEMP OP LIFE	1105	MAX16924GTM/V+	135C	1000	HRS	78	0
HIGH TEMP OP LIFE	1105	MAX8798ETX+	135C	1000	HRS	46	0
HIGH TEMP OP LIFE	1105	MAX8798ETX+	135C	1000	HRS	46	0
HIGH TEMP OP LIFE	1106	MAX9695ETM+	135C	1000	HRS	48	0
HIGH TEMP OP LIFE	1106	MAX9695ETM+	135C	1000	HRS	48	0
HIGH TEMP OP LIFE	1106	MAX9695ETM+	135C	1000	HRS	48	0
HIGH TEMP OP LIFE	1107	MAX9669ETI+	135C	1000	HRS	80	0
HIGH TEMP OP LIFE	1108	MAX17491GTA+	135C	1000	HRS	75	0
HIGH TEMP OP LIFE	1108	MAXEXPETE+	135C	1000	HRS	80	0
HIGH TEMP OP LIFE	1108	MAXEXPETE+	135C	1000	HRS	80	0
HIGH TEMP OP LIFE	1108	MAXEXPETE+	135C	1000	HRS	80	0
HIGH TEMP OP LIFE	1109	MAX3989ETG+	135C	192	HRS	80	0
HIGH TEMP OP LIFE	1109	MAX9860ETG+	135C	500	HRS	40	0
HIGH TEMP OP LIFE	1109	MAX16924GTM/V+	135C	1000	HRS	75	0
HIGH TEMP OP LIFE	1109	MAX16924GTM/V+	135C	1000	HRS	75	0
HIGH TEMP OP LIFE	1110	MAX12005ETM+	135C	192	HRS	24	0
HIGH TEMP OP LIFE	1110	MAX12005ETM+	135C	192	HRS	24	0
HIGH TEMP OP LIFE	1110	MAX11014BGTM+	135C	1000	HRS	41	0
HIGH TEMP OP LIFE	1110	MAX11014BGTM=	135C	1000	HRS	44	0
HIGH TEMP OP LIFE	1110	MAX11014BGTM+	135C	1000	HRS	45	0
HIGH TEMP OP LIFE	1112	MAX3948ETE+	135C	192	HRS	80	0
HIGH TEMP OP LIFE	1112	MAX2116UTL+	135C	1000	HRS	80	0
HIGH TEMP OP LIFE	1112	MAX17491GTA+	135C	1000	HRS	77	0
HIGH TEMP OP LIFE	1112	MAX17491GTA+	135C	1000	HRS	80	0
HIGH TEMP OP LIFE	1113	MAX3643ETG+	135C	192	HRS	48	0
HIGH TEMP OP LIFE	1113	MAX3643ETG+	135C	240	HRS	32	0
HIGH TEMP OP LIFE	1114	MAX2121ETI+	135C	192	HRS	48	0
HIGH TEMP OP LIFE	1114	MAX2121ETI+	135C	192	HRS	48	0
HIGH TEMP OP LIFE	1114	MAX7370ATG+	135C	192	HRS	79	0

HIGH TEMP OP LIFE	1114	MAX2121ETI+	135C	1000 HRS	47	0
HIGH TEMP OP LIFE	1114	MAX2121ETI+	135C	1000 HRS	48	0
HIGH TEMP OP LIFE	1114	MAX9679ETG+	135C	1000 HRS	42	0
HIGH TEMP OP LIFE	1114	MAX9679ETG+	135C	1000 HRS	45	0
HIGH TEMP OP LIFE	1114	MAX15092GTL+	135C	1000 HRS	48	0
HIGH TEMP OP LIFE	1115	DS1884	125C, 3.6 VOLTS	192 HRS	77	0
HIGH TEMP OP LIFE	1115	MAX9679ETG+	135C	1000 HRS	45	1
HIGH TEMP OP LIFE	1116	MAX17497AATE+	135C	192 HRS	80	0
HIGH TEMP OP LIFE	1118	MAX34406	125C, 5.0V (PSA) & 20.0V (PSD)	192 HRS	70	0
HIGH TEMP OP LIFE	1118	78M6631	125C, 5.0 VOLTS	1000 HRS	1690	0
HIGH TEMP OP LIFE	1119	MAXQ1740	125C, 3.6 VOLTS	192 HRS	48	0
HIGH TEMP OP LIFE	1119	MAXQ1740	125C, 3.6 VOLTS	192 HRS	48	0
HIGH TEMP OP LIFE	1119	MAX17114ETM+	135C	1000 HRS	75	0
HIGH TEMP OP LIFE	1120	DS4830	125C, 3.3 VOLTS	192 HRS	77	0
HIGH TEMP OP LIFE	1120	MAX8790AETP+	135C	1000 HRS	70	0
HIGH TEMP OP LIFE	1120	MAX14778ETP+	135C	500 HRS	80	0
HIGH TEMP OP LIFE	1122	MAX2090ETP+	135C	24 HRS	48	0
HIGH TEMP OP LIFE	1122	MAX11871ETM+C53	135C	192 HRS	78	0
HIGH TEMP OP LIFE	1122	MAX11871ETM+C53	135C	1000 HRS	78	0
HIGH TEMP OP LIFE	1123	MAX2769BETI/V+	135C	1000 HRS	50	0
HIGH TEMP OP LIFE	1125	MAX14593EETX+	135C	192 HRS	79	0
HIGH TEMP OP LIFE	1125	MAX11131ATI+	135C	192 HRS	80	0
HIGH TEMP OP LIFE	1126	MAX14592EETI+	135C	192 HRS	50	0
HIGH TEMP OP LIFE	1127	MAX3710ETG+	135C	192 HRS	80	0
HIGH TEMP OP LIFE	1127	MAX9695AETM+	135C	192 HRS	47	0
HIGH TEMP OP LIFE	1127	MAXEXP7ETE+	135C	1000 HRS	80	0
HIGH TEMP OP LIFE	1127	MAXEXP7ETE+	135C	1000 HRS	80	0
HIGH TEMP OP LIFE	1127	MAXEXP7ETE+	135C	1000 HRS	80	0
HIGH TEMP OP LIFE	1129	MAX3636ETM+	135C	192 HRS	48	0
HIGH TEMP OP LIFE	1129	MAX3636ETM+	135C	192 HRS	32	0
HIGH TEMP OP LIFE	1129	MAX3636ETM+	135C	240 HRS	32	0
HIGH TEMP OP LIFE	1129	MAX3636ETM+	135C	192 HRS	48	0
HIGH TEMP OP LIFE	1130	MAX11871ETM+	135C	1000 HRS	80	0
HIGH TEMP OP LIFE	1131	MAX17498AATE+	135C	192 HRS	80	0
HIGH TEMP OP LIFE	1131	MAX9684ETN+	135C	1000 HRS	80	1
HIGH TEMP OP LIFE	1131	MAX9684ETN+	135C	1000 HRS	78	0
HIGH TEMP OP LIFE	1132	MAX3711ETG+	135C	192 HRS	80	0
HIGH TEMP OP LIFE	1132	MAX1781ETM+	135C	1000 HRS	45	0
HIGH TEMP OP LIFE	1132	MAX2363ETM+	135C	1000 HRS	77	0
HIGH TEMP OP LIFE	1132	MAX2363ETM+	135C	1000 HRS	77	0

HIGH TEMP OP LIFE	1132	MAX2363ETM+	135C	1000 HRS	77	0
HIGH TEMP OP LIFE	1133	MAX15300ETI+	135C	192 HRS	80	0
HIGH TEMP OP LIFE	1133	MAX8520ETP+	135C	1000 HRS	48	0
HIGH TEMP OP LIFE	1133	MAX8520ETP+	135C	1000 HRS	48	0
HIGH TEMP OP LIFE	1133	MAX8520ETP+	135C	1000 HRS	48	0
HIGH TEMP OP LIFE	1133	MAX17491GTA+	135C	1024 HRS	75	0
HIGH TEMP OP LIFE	1134	MAXQ1050	125C, 5.5V (PSA) & 3.6V (PSB)	192 HRS	48	0
HIGH TEMP OP LIFE	1134	MAX2553ETN+	135C	192 HRS	60	0
HIGH TEMP OP LIFE	1134	MAX2553ETN+	135C	240 HRS	48	0
HIGH TEMP OP LIFE	1135	TX27YETH+	135C	192 HRS	80	0
HIGH TEMP OP LIFE	1136	MAX9599AETG+	135C	192 HRS	80	0
HIGH TEMP OP LIFE	1136	MAX4936ACTO+	135C	192 HRS	48	0
HIGH TEMP OP LIFE	1137	MAX8798AETX+	135C	1000 HRS	80	0
HIGH TEMP OP LIFE	1139	MAX5112GTJ+	135C	192 HRS	48	0
HIGH TEMP OP LIFE	1141	MAX5316GTG+	135C	192 HRS	80	0
HIGH TEMP OP LIFE	1142	MAX9832ETG+	135C	1024 HRS	80	0
HIGH TEMP OP LIFE	1142	MAX9832ETG+	135C	1024 HRS	79	0
HIGH TEMP OP LIFE	1143	MAX14616ETX+	135C	192 HRS	80	0
HIGH TEMP OP LIFE	1144	MAX8655ETN+	135C	1000 HRS	76	1
HIGH TEMP OP LIFE	1144	MAX8655ETN+	135C	500 HRS	45	0
HIGH TEMP OP LIFE	1145	MAX98400AETX+	135C	500 HRS	72	0
HIGH TEMP OP LIFE	1147	MAX9688ETI+	135C	1000 HRS	80	0
HIGH TEMP OP LIFE	1147	MAX9688RETI+	135C	1000 HRS	80	0
HIGH TEMP OP LIFE	1147	MAX9688RETI+	135C	1000 HRS	79	0
HIGH TEMP OP LIFE	1148	MAX15301ETJ+	135C	336 HRS	20	0
HIGH TEMP OP LIFE	1150	MAX13366GTE/V+	135C	192 HRS	80	0
HIGH TEMP OP LIFE	1150	MAX8655ETN+	135C	500 HRS	77	0
HIGH TEMP OP LIFE	1150	MAX9832ETG+	135C	192 HRS	80	0
HIGH TEMP OP LIFE	1150	MAX17491GTA+	135C	1000 HRS	75	0
HIGH TEMP OP LIFE	1150	MAX17491GTA+	135C	192 HRS	75	0
HIGH TEMP OP LIFE	1151	MAX9832ETG+	135C	1000 HRS	80	0
HIGH TEMP OP LIFE	1151	MAX2135AETN+	135C	192 HRS	48	0
HIGH TEMP OP LIFE	1152	MAX9695AETM+	135C	192 HRS	48	0
HIGH TEMP OP LIFE	1152	MAX9695AETM+	135C	192 HRS	48	0
HIGH TEMP OP LIFE	1153	MAX2140ETH+	135C	192 HRS	80	0
HIGH TEMP OP LIFE	1201	MAX98400AETX+	135C	500 HRS	70	0
HIGH TEMP OP LIFE	1203	MAX14616ETX+	135C	192 HRS	80	0
Total:						3

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1031	MAX16946GTE/V+	150C	500 HRS	50	0	
STORAGE LIFE	1038	MAX9851ETM+	150C	1000 HRS	77	0	
STORAGE LIFE	1038	MAX9851ETM+	150C	1000 HRS	77	0	
STORAGE LIFE	1038	MAX9851ETM+	150C	1000 HRS	77	0	
STORAGE LIFE	1052	MAX17114ETM+CB2	150C	1000 HRS	215	0	
STORAGE LIFE	1052	MAX17114ETM+CB2	150C	1000 HRS	77	0	
STORAGE LIFE	1105	MAX8798ETX+	150C	1000 HRS	77	0	
STORAGE LIFE	1106	MAX9695ETM+	150C	1000 HRS	77	0	
STORAGE LIFE	1106	MAX9695ETM+	150C	1000 HRS	77	0	
STORAGE LIFE	1106	MAX9695ETM+	150C	1000 HRS	76	0	
STORAGE LIFE	1108	MAX17491GTA+	150C	1000 HRS	80	0	
STORAGE LIFE	1108	MAX16924GTM/V+	150C	1000 HRS	50	0	
STORAGE LIFE	1110	MAX11014BGTM+	150C	1000 HRS	77	0	
STORAGE LIFE	1110	MAX11014BGTM+	150C	1000 HRS	77	0	
STORAGE LIFE	1110	MAX11014BGTM+	150C	1000 HRS	77	0	
STORAGE LIFE	1112	MAX17491GTA+	150C	1000 HRS	80	0	
STORAGE LIFE	1112	MAX17491GTA+	150C	1000 HRS	80	0	
STORAGE LIFE	1114	MAX9679ETG+	150C	1000 HRS	77	0	
STORAGE LIFE	1114	MAX9679ETG+	150C	1000 HRS	77	0	
STORAGE LIFE	1115	MAX9679ETG+	150C	1000 HRS	77	0	
STORAGE LIFE	1119	MAX17114ETM+	150C	1000 HRS	80	0	
STORAGE LIFE	1127	MAXEXP7ETE+	150C	1000 HRS	80	0	
STORAGE LIFE	1127	MAXEXP7ETE+	150C	500 HRS	80	0	
STORAGE LIFE	1127	MAXEXP7ETE+	150C	1000 HRS	80	0	
STORAGE LIFE	1127	MAXEXP7ETE+	150C	1000 HRS	80	0	
STORAGE LIFE	1130	MAX11871ETM+	150C	1000 HRS	80	0	
STORAGE LIFE	1131	MAX9684ETN+	150C	1000 HRS	77	0	
STORAGE LIFE	1131	MAX9684ETN+	150C	1000 HRS	77	0	
STORAGE LIFE	1131	MAX9684ETN+	150C	1000 HRS	77	0	
STORAGE LIFE	1132	MAX1781ETM+	150C	1000 HRS	77	1	
STORAGE LIFE	1132	MAX2363ETM+	150C	1000 HRS	77	0	
STORAGE LIFE	1132	MAX2363ETM+	150C	1000 HRS	77	0	
STORAGE LIFE	1132	MAX2363ETM+	150C	500 HRS	77	0	
STORAGE LIFE	1132	MAX2363ETM+	150C	1000 HRS	77	0	
STORAGE LIFE	1133	MAX8520ETP+	150C	1048 HRS	30	0	

STORAGE LIFE	1133	MAX8520ETP+	150C	1048 HRS	30	0
STORAGE LIFE	1133	MAX8520ETP+	150C	1000 HRS	30	0
STORAGE LIFE	1134	MAX16948AGTE/V+	150C	500 HRS	50	1
STORAGE LIFE	1142	MAX9832ETG+	150C	1000 HRS	80	0
STORAGE LIFE	1142	MAX9832ETG+	150C	1000 HRS	80	0
STORAGE LIFE	1142	MAX15021ATI+	150C	1048 HRS	45	0
STORAGE LIFE	1144	MAX8655ETN+	150C	1000 HRS	78	0
STORAGE LIFE	1145	MAX98400AETX+	150C	24 HRS	500	0
STORAGE LIFE	1145	MAX16948AGTE/V+	150C	500 HRS	50	0
STORAGE LIFE	1147	MAX9688ETI+	150C	1065 HRS	80	0
STORAGE LIFE	1147	MAX9688RETI+	150C	1065 HRS	80	0
STORAGE LIFE	1147	MAX9688RETI+	150C	1065 HRS	80	0
STORAGE LIFE	1150	MAX8795AGTJ+	150C	500 HRS	50	0
STORAGE LIFE	1150	MAX8655ETN+	150C	1000 HRS	78	0
STORAGE LIFE	1150	MAX8655ETN+	150C	1000 HRS	78	0
STORAGE LIFE	1150	MAX13366GTE/V+	150C	500 HRS	50	0
STORAGE LIFE	1151	MAX8795AGTJ+	150C	500 HRS	50	0
STORAGE LIFE	1151	MAX9832ETG+	150C	1000 HRS	80	0
STORAGE LIFE	1152	MAX19757ETX+	150C	500 HRS	80	0
STORAGE LIFE	1201	MAX98400AETX+	150C	500 HRS	80	0
STORAGE LIFE	1201	MAX98400AETX+	150C	940 HRS	300	0
STORAGE LIFE	1205	MAX2091ETP+	150C	192 HRS	50	0

Total: 2

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	1005	MAX15059ETE+	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1038	MAX9851ETM+	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1050	MAX8795AGTJ/V+	-65C TO 150C	500 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1052	MAX17114ETM+CB2	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1052	MAX17114ETM+CB2	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1052	MAX17114ETM+CB2	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1103	MAX17018BATL/V+	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1103	MAX5971AETI+	-65C TO 150C	1000 CYS	77	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1105	MAX8798ETX+	-65C TO 150C	1000 CYS	77	0	

TEMP CYCLE, 5' RAMP, 10' DWELL	1105	MAX8798ETX+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1106	MAX9695ETM+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1106	MAX9695ETM+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1106	MAX9695ETM+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1107	MAX5974AETE+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1108	MAX17491GTA+	-65C TO 150C	500 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1108	MAXEXPETE+	-65C TO 150C	500 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1108	MAXEXPETE+	-65C TO 150C	500 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1108	MAXEXPETE+	-65C TO 150C	500 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1108	MAX16924GTM/V+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1108	MAX16924GTM/V+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1108	MAX16924GTM/V+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1108	MAX16924GTM/V+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1110	MAX11014BGTM+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1110	MAX11014BGTM+	-65C TO 150C	500 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1110	MAX11014BGTM+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1111	MAX17411RGTM+W	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1112	MAX17491GTA+	-65C TO 150C	500 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1112	MAX17491GTA+	-65C TO 150C	500 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1114	MAX9679ETG+	-65C TO 150C	1000 CYS	76	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1114	MAX9679ETG+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1115	MAX9679ETG+	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1119	MAX17114ETM+	-65C TO 150C	500 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1127	MAXEXP7ETE+	-65C TO 150C	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1127	MAXEXP7ETE+	-65C TO 150C	500 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1127	MAXEXP7ETE+	-65C TO 150C	1000 CYS	78	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1127	MAXEXP7ETE+	-65C TO 150C	500 CYS	80	0

TEMP CYCLE, 5' RAMP, 10' DWELL	1127	MAXEXP7ETE+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1127	MAXEXP7ETE+	-65C TO 150C	1000	CYS	78	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1130	MAX11871ETM+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1130	MAX15022ATI+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1130	MAX15022ATI+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1130	MAX15022ATI+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1131	MAX9684ETN+	-65C TO 150C	1000	CYS	72	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1131	MAX9684ETN+	-65C TO 150C	1000	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1131	MAX15022ATI+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1131	MAX15022ATI+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1131	MAX15022ATI+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1131	MAX15022ATI+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1132	MAX13362ATL/V+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1132	MAX1781ETM+	-65C TO 150C	1000	CYS	76	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1132	MAX1781ETM+	-65C TO 150C	1000	CYS	77	1
TEMP CYCLE, 5' RAMP, 10' DWELL	1132	MAX2363ETM+	-65C TO 150C	1000	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1132	MAX2363ETM+	-65C TO 150C	1000	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1132	MAX2363ETM+	-65C TO 150C	1000	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1133	MAX8520ETP+	-65C TO 150C	1000	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1133	MAX8520ETP+	-65C TO 150C	1000	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1133	MAX8520ETP+	-65C TO 150C	1000	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1134	MAX16948AGTE/V+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1136	MAX8643ETG+	-65C TO 150C	100	CYS	996	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1138	MAX8643ETG+	-65C TO 150C	1000	CYS	596	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1138	MAX8643ETG+	-65C TO 150C	50	CYS	598	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1141	MAX17018DATL/V+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1142	MAX9832ETG+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1142	MAX9832ETG+	-65C TO 150C	500	CYS	80	0

TEMP CYCLE, 5' RAMP, 10' DWELL	1143	MAX9695ETM+	-65C TO 150C	500	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1143	MAX9695ETM+	-65C TO 150C	1000	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1143	MAX17018DATL/V+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1143	MAX16946GTE/V+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1144	MAX8655ETN+	-65C TO 150C	1000	CYS	78	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1144	MAX16833CAUE/V+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1145	MAX16948AGTE/V+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1145	MAX16948AGTE/V+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1146	MAX16946GTE+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1148	MAX8643ETG+	-65C TO 150C	50	CYS	2541	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1150	MAX8795AGTJ+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1150	MAX8795AGTJ+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1150	MAX8795AGTJ+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1150	MAX8655ETN+	-65C TO 150C	1000	CYS	78	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1150	MAX8655ETN+	-65C TO 150C	1000	CYS	78	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1150	MAX13366GTE/V+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1151	MAX8795AGTJ+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1151	MAX8795AGTJ+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1151	MAX8795AGTJ+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1151	MAX8795AGTJ+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1151	MAX9832ETG+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1152	MAX19757ETX+	-65C TO 150C	500	CYS	79	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1152	MAX3646ETG+	-65C TO 150C	200	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1152	MAX3646ETG+	-65C TO 150C	200	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1152	MAX16946GTE/V+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1201	MAX98400AETX+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1202	MAX16977RATE/V+	-65C TO 150C	500	CYS	80	0

Total: 1

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE	1050	MAX8795AGTJ/V+	130C, 85% R.H.	96 HRS	80	0	
BIASED MOISTURE	1130	MAX15022ATI+	130C, 85% R.H.	96 HRS	33	0	
BIASED MOISTURE	1130	MAX15022ATI+	130C, 85% R.H.	100 HRS	33	0	
BIASED MOISTURE	1132	MAX1781ETM+	130C, 85% R.H.	500 HRS	30	1	
BIASED MOISTURE	1142	MAX15021ATI+	130C, 85% R.H.	100 HRS	29	0	
BIASED MOISTURE	1145	MAX16948AGTE/V+	130C, 85% R.H.	100 HRS	48	0	
BIASED MOISTURE	1150	MAX8655ETN+	130C, 85% R.H.	100 HRS	38	0	
BIASED MOISTURE	1150	MAX8655ETN+	130C, 85% R.H.	100 HRS	39	0	
BIASED MOISTURE	1151	MAX8795AGTJ+	130C, 85% R.H.	96 HRS	80	1	
BIASED MOISTURE	1151	MAX8795AGTJ+	130C, 85% R.H.	96 HRS	80	0	
BIASED MOISTURE	1201	MAX98400AETX+	130C, 85% R.H.	100 HRS	46	0	
Total:						2	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
MOISTURE SOAK	1015	MAX14521EETG+	85 C/85% R.H.	1000 HRS	45	0	
MOISTURE SOAK	1050	MAX8795AGTJ/V+	130C, 85% R.H.	96 HRS	80	0	
MOISTURE SOAK	1105	MAX8798ETX+	85 C/85% R.H.	1000 HRS	19	0	
MOISTURE SOAK	1110	MAX11014BGTM+	85 C/85% R.H.	1000 HRS	30	0	
MOISTURE SOAK	1110	MAX11014BGTM+	85 C/85% R.H.	500 HRS	30	1	
MOISTURE SOAK	1130	MAX15022ATI+	130C, 85% R.H.	96 HRS	80	0	
MOISTURE SOAK	1130	MAX15022ATI+	130C, 85% R.H.	100 HRS	80	0	
MOISTURE SOAK	1131	MAX15022ATI+	130C, 85% R.H.	100 HRS	80	0	
MOISTURE SOAK	1131	MAX15022ATI+	130C, 85% R.H.	100 HRS	80	0	
MOISTURE SOAK	1131	MAX15022ATI+	130C, 85% R.H.	100 HRS	80	0	
MOISTURE SOAK	1131	MAX15022ATI+	130C, 85% R.H.	100 HRS	80	0	
MOISTURE SOAK	1134	MAX16948AGTE/V+	130C, 85% R.H.	100 HRS	80	0	
MOISTURE SOAK	1141	MAX17018DATL/V+	130C, 85% R.H.	100 HRS	80	0	
MOISTURE SOAK	1142	MAX15021ATI+	130C, 85% R.H.	100 HRS	76	0	
MOISTURE SOAK	1143	MAX17018DATL/V+	130C, 85% R.H.	96 HRS	80	0	
MOISTURE SOAK	1143	MAX16946GTE/V+	130C, 85% R.H.	100 HRS	80	0	
MOISTURE SOAK	1144	MAX8655ETN+	130C, 85% R.H.	100 HRS	77	0	
MOISTURE SOAK	1144	MAX16833CAUE/V+	130C, 85% R.H.	100 HRS	80	0	
MOISTURE SOAK	1145	MAX16948AGTE/V+	130C, 85% R.H.	100 HRS	80	0	
MOISTURE SOAK	1145	MAX16948AGTE/V+	130C, 85% R.H.	100 HRS	80	0	
MOISTURE SOAK	1146	MAX16946GTE+	130C, 85% R.H.	96 HRS	80	0	
MOISTURE SOAK	1150	MAX8795AGTJ+	130C, 85% R.H.	96 HRS	80	0	

MOISTURE SOAK	1150	MAX8795AGTJ+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1150	MAX8795AGTJ+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1150	MAX8655ETN+	130C, 85% R.H.	100	HRS	77	0
MOISTURE SOAK	1150	MAX8655ETN+	130C, 85% R.H.	100	HRS	77	0
MOISTURE SOAK	1151	MAX8795AGTJ+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1151	MAX8795AGTJ+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1151	MAX8795AGTJ+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1152	MAX16946GTE/V+	130C, 85% R.H.	100	HRS	80	0
Total:							1

Assembly Information:

Package Type: TQFN Flip Chip
Date Code Range: 1105 to 1105

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	1105	MAX3748HETE#G16	-65C TO 150C	1000	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1105	MAX3748HETE#G16	-65C TO 150C	1000	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1105	MAX3748HETE#G16	-65C TO 150C	1000	CYS	77	0
Total:						0	

FAILURE RATE: MTTF (YRS): 228311 FITS: 0.5