



7/19/2012

**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	8	TQFN (Pb-Free)	ASE Chung-Li	16 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	40	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)	ASE Chung-Li	68 TQFN (Pb-Free)
ASE Taiwan	48	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)
HANA AYT	6	TQFN (Pb-Free)	Unisem Malaysia	24 TQFN (Pb-Free)
UTACDG (China)	8	TQFN (Pb-Free)	UTACDG (China)	16 TQFN (Pb-Free)
UTACDG (China)	20	TQFN (Pb-Free)	UTACDG (China)	24 TQFN (Pb-Free)
UTACDG (China)	28	TQFN (Pb-Free)	UTACDG (China)	36 TQFN (Pb-Free)
UTACDG (China)	40	TQFN (Pb-Free)	UTACDG (China)	48 TQFN (Pb-Free)
UTACDG (China)	56	TQFN (Pb-Free)	UTACDG (China)	68 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)

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 380518 FITS: 0.3

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 7/1/2011 and 6/30/2012.

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	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	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		MAX15074EGD+	-65C TO 150C	1000 CYS	220	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	

Assembly Information:

Package Type: TQFN (Pb-Free)
Date Code Range: 0906 to 1217

DATA RETENTION

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1135	MAXQ610	150C	1000 HRS	77	0	
STORAGE LIFE	1135	MAXQ610	150C	1000 HRS	77	0	
STORAGE LIFE	1135	MAXQ610	150C	1000 HRS	77	0	
					Total:	0	

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	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	264 HRS	38	0	
HIGH TEMP OP LIFE	1029	MAX5971BETI+	135C	192 HRS	45	0	
HIGH TEMP OP LIFE	1050	MAX17129ETE+	135C	192 HRS	48	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	47	0	
HIGH TEMP OP LIFE	1105	MAX16924GTM/VV+	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	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	MAX16924GTM/V+	135C	1000 HRS	75	0
HIGH TEMP OP LIFE	1109	MAX16924GTM/V+	135C	1000 HRS	75	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	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	1000 HRS	48	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	MAX9679ETG+	135C	1000 HRS	44	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	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	AK24	135C, 5.0V (PSA)	192 HRS	80	0
HIGH TEMP OP LIFE	1118	78M6631	125C, 5.0 VOLTS	1000 HRS	1690	0
HIGH TEMP OP LIFE	1118	MAX9679ETG+	135C	500 HRS	77	1
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	MAX5982BETE+	135C	192 HRS	48	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	MAX11871ETM+C53	135C	1000 HRS	78	0
HIGH TEMP OP LIFE	1122	MAX11871ETM+C53	135C	192 HRS	78	0
HIGH TEMP OP LIFE	1122	MAX2090ETP+	135C	24 HRS	48	0
HIGH TEMP OP LIFE	1123	MAX2769BETI/V+	135C	1000 HRS	50	0
HIGH TEMP OP LIFE	1125	AC86	135C, 3.0V (PSA)	192 HRS	80	0
HIGH TEMP OP LIFE	1125	MAX11131ATI+	135C	192 HRS	80	0
HIGH TEMP OP LIFE	1125	MAX14593EETX+	135C	192 HRS	79	0
HIGH TEMP OP LIFE	1126	MAX14592EETI+	135C	192 HRS	50	0
HIGH TEMP OP LIFE	1126	MAX17129ETE+	135C	192 HRS	48	0

HIGH TEMP OP LIFE	1127	MAX9695AETM+	135C	192	HRS	47	0
HIGH TEMP OP LIFE	1127	MAX3710ETG+	135C	192	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	1127	MAXEXP7ETE+	135C	1000	HRS	80	0
HIGH TEMP OP LIFE	1129	MAX3636ETM+	135C	240	HRS	32	0
HIGH TEMP OP LIFE	1129	MAX3636ETM+	135C	192	HRS	32	0
HIGH TEMP OP LIFE	1129	MAX3636ETM+	135C	192	HRS	48	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	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	LC04	135C, 5.0V (PSA)	192	HRS	80	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	MAX17135ETJ+	135C	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	MAXQ610	125C, 3.6V (PSA) & 2.0V (PSB)	1000	HRS	77	0
HIGH TEMP OP LIFE	1135	MAXQ610	125C, 3.6V (PSA) & 2.0V (PSB)	1000	HRS	77	0
HIGH TEMP OP LIFE	1135	MAXQ610	125C, 3.6V (PSA) & 2.0V (PSB)	1000	HRS	77	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	1136	MAX4936ACTO+	135C	192	HRS	31	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	1140	MAX11871ETM+	135C	1000	HRS	80	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	76	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	MAX8655ETN+	135C	500	HRS	77	0
HIGH TEMP OP LIFE	1150	MAX9832ETG+	135C	500	HRS	80	0
HIGH TEMP OP LIFE	1150	MAX9832ETG+	135C	500	HRS	80	0
HIGH TEMP OP LIFE	1150	MAX17491GTA+	135C	192	HRS	75	0
HIGH TEMP OP LIFE	1150	MAX17491GTA+	135C	1000	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	1152	MAX9695ETM+	135C	192	HRS	48	0
HIGH TEMP OP LIFE	1152	MAX9695ETM+	135C	192	HRS	48	0
HIGH TEMP OP LIFE	1152	MAX16922ATPF/V+	135C	1000	HRS	79	0
HIGH TEMP OP LIFE	1153	MAX2140ETH+	135C	524	HRS	79	0
HIGH TEMP OP LIFE	1153	MAX2140ETH+	135C	500	HRS	80	0
HIGH TEMP OP LIFE	1201	MAX98400AETX+	135C	1000	HRS	70	0
HIGH TEMP OP LIFE	1203	MAX14616ETX+	135C	192	HRS	80	0
HIGH TEMP OP LIFE	1203	MAX2172ETL+	135C	500	HRS	78	0
HIGH TEMP OP LIFE	1207	DS1886	125C, 3.6 VOLTS	192	HRS	80	0
HIGH TEMP OP LIFE	1207	MAX44005EDT+	135C	1000	HRS	80	0
HIGH TEMP OP LIFE	1207	MAX44005EDT+	135C	1000	HRS	80	0
HIGH TEMP OP LIFE	1208	MAX44005EDT+	135C	1000	HRS	80	0
HIGH TEMP OP LIFE	1208	MAX2135AETN/V+	135C	500	HRS	32	0
HIGH TEMP OP LIFE	1208	MAX17491GTA+T	135C	1000	HRS	74	0
HIGH TEMP OP LIFE	1209	MAX2058ETL+	135C	500	HRS	48	0
HIGH TEMP OP LIFE	1209	MAX3802UTK+	135C	517	HRS	80	0
HIGH TEMP OP LIFE	1214	MAX14808ETK+	135C	500	HRS	79	0
HIGH TEMP OP LIFE	1214	MAX98400AETX+	135C	452	HRS	72	0

HIGH TEMP OP LIFE	1216	MAX5971BETI+	135C	192	HRS	47	0
HIGH TEMP OP LIFE	1216	MAX5971BETI+	135C	192	HRS	46	0
HIGH TEMP OP LIFE	1216	MAX5971BETI+	135C	192	HRS	47	0
HIGH TEMP OP LIFE	1217	MAX14616AETX+	135C	192	HRS	80	0
Total:							2

PRECONDITIONING LEVEL 1

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
CONVECTION REFLOW	1207	MAX44005EDT+T	260C +0/-5C	27	PASS	100	0
Total:							0

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	1106	MAX9695ETM+	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	1110	MAX11014BGTM+	150C	1000	HRS	77	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	500	HRS	80	0
STORAGE LIFE	1127	MAXEXP7ETE+	150C	1000	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	1135	MAXQ610	150C	1000	HRS	77	0
STORAGE LIFE	1135	MAXQ610	150C	1000	HRS	77	0

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	1000	HRS	80	0
STORAGE LIFE	1152	MAX16922ATPF/V+	150C	500	HRS	50	1
STORAGE LIFE	1201	MAX98400AETX+	150C	500	HRS	80	0
STORAGE LIFE	1201	MAX98400AETX+	150C	1000	HRS	300	0
STORAGE LIFE	1207	MAX44005EDT+	150C	500	HRS	80	0
STORAGE LIFE	1207	MAX44005EDT+	150C	1000	HRS	80	0
STORAGE LIFE	1207	MAX9684ETN+	150C	1000	HRS	77	0
STORAGE LIFE	1207	MAX9684ETN+	150C	1000	HRS	77	0
STORAGE LIFE	1207	MAX9684ETN+	150C	1000	HRS	77	0
STORAGE LIFE	1208	MAX44005EDT+	150C	1000	HRS	80	0
STORAGE LIFE	1215	MAX9737ETG+	150C	500	HRS	80	0
STORAGE LIFE	1216	MAX9708ETN+	150C	1000	HRS	50	0
Total:						3	

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	1050	MAX8795AGTJ/V+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1103	MAX5971AETI+	-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	1111	MAX17411RGTM+W	-65C TO 150C	1000	CYS	77	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	1123	MAX2769BETI/V+	-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	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	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	1135	MAXQ610	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1135	MAXQ610	-65C TO 150C	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1135	MAXQ610	-65C TO 150C	1000 CYS	77	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	1000 CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1143	MAX9695ETM+	-65C TO 150C	500 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	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	MAX9832ETG+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1152	MAX2769BETI/V+	-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	1000	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1152	MAX3646ETG+	-65C TO 150C	1000	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	1152	MAX16922ATPF/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
TEMP CYCLE, 5' RAMP, 10' DWELL	1202	MAX16946GTE/V+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1207	MAX9684ETN+	-65C TO 150C	1000	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1207	MAX9684ETN+	-65C TO 150C	500	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1207	MAX9684ETN+	-65C TO 150C	1000	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1208	MAX3646ETG+	-65C TO 150C	1000	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1208	MAX3646ETG+	-65C TO 150C	1000	CYS	77	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1209	MAX2769BETI/V+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1211	MAX9739ETG+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1215	MAX9737ETG+	-65C TO 150C	500	CYS	80	1
TEMP CYCLE, 5' RAMP, 10' DWELL	1215	MAX9739ETG+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1215	MAX9736AETJ+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1215	MAX9736AETJ+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1216	MAX9708ETN+	-65C TO 150C	500	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1216	MAX9736AETJ+	-65C TO 150C	500	CYS	80	0

Total: 2

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	1102	MAX9708ETN+	130C, 85% R.H.	100 HRS	35	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	1131	MAX15022ATI+	130C, 85% R.H.	100 HRS	34	0	
BIASED MOISTURE	1131	MAX15022ATI+	130C, 85% R.H.	100 HRS	34	0	
BIASED MOISTURE	1131	MAX15022ATI+	130C, 85% R.H.	100 HRS	46	0	
BIASED MOISTURE	1132	MAX1781ETM+	130C, 85% R.H.	500 HRS	30	1	
HAST	1135	MAXQ610	130C, 85%R.H., 3.5V	96 HRS	77	0	
HAST	1135	MAXQ610	130C, 85%R.H., 3.5V	96 HRS	77	0	
BIASED MOISTURE	1142	MAX15021ATI+	130C, 85% R.H.	100 HRS	29	0	
BIASED MOISTURE	1150	MAX8795AGTJ+	130C, 85% R.H.	96 HRS	80	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	1152	MAX19757ETX+	130C, 85% R.H.	100 HRS	46	0	
BIASED MOISTURE	1201	MAX98400AETX+	130C, 85% R.H.	100 HRS	46	0	
BIASED MOISTURE	1207	MAX9684ETN+	130C, 85% R.H.	100 HRS	45	0	
BIASED MOISTURE	1207	MAX9684ETN+	130C, 85% R.H.	100 HRS	45	0	
Total:						2	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
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	1105	MAX8798ETX+	85 C/85% R.H.	1000 HRS	45	0	
MOISTURE SOAK	1106	MAX9708ETN+	130C, 85% R.H.	100 HRS	80	0	
MOISTURE SOAK	1110	MAX11014BGTM+	85 C/85% R.H.	1000 HRS	30	0	
MOISTURE SOAK	1110	MAX11014BGTM+	85 C/85% R.H.	1000 HRS	29	0	
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	1134	MAX16948AGTE/V+	130C, 85% R.H.	100 HRS	80	0	

HAST, NO BIAS	1135	MAXQ610	130C, 85% R.H.	100	HRS	77	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	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	MAX2769BETI/V+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1152	MAX16946GTE/V+	130C, 85% R.H.	100	HRS	80	0
MOISTURE SOAK	1202	MAX16946GTE/V+	130C, 85% R.H.	100	HRS	80	0
MOISTURE SOAK	1207	MAX44005EDT+	85 C/85% R.H.	500	HRS	80	0
Total:						0	0

WRITE CYCLE STRESS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1135	MAXQ610	150C	96	HRS	160	0
WRITE CYCLE STRESS (KCYS)	1135	MAXQ610	85 C, 3.6V (PSA) & 2.0V (PSB)	20	KCYS	160	0
STORAGE LIFE	1135	MAXQ610	150C	96	HRS	160	0
WRITE CYCLE STRESS (KCYS)	1135	MAXQ610	85 C, 3.6V (PSA) & 2.0V (PSB)	20	KCYS	160	0
WRITE CYCLE STRESS (KCYS)	1135	MAXQ610	85 C, 3.6V (PSA) & 2.0V (PSB)	20	KCYS	160	0
STORAGE LIFE	1135	MAXQ610	150C	96	HRS	160	0
WRITE CYCLE STRESS (KCYS)	1135	MAXQ610	85 C, 3.6V (PSA) & 2.0V (PSB)	20	KCYS	160	0
Total:						0	0

FAILURE RATE: MTTF (YRS): 380518 FITS: 0.3