



7/19/2012

**RELIABILITY MONITOR REPORT  
FOR**

**TQFP 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 Tawain	64	TQFP (Pb-Free)	ATK	48 TQFP (Pb-Free)
ATK	64	TQFP (Pb-Free)	ATK	80 TQFP (Pb-Free)

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 7/1/2011 and 6/30/2012

**Assembly Information:**

Package Type: TQFP (Pb-Free)

Date Code Range: 1002 to 1140

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1002	MAX9260GCB/V+	135C	1000 HRS	24	0	
HIGH TEMP OP LIFE	1036	HS40	135C, 1.8 V (PSA)	1000 HRS	81	0	
HIGH TEMP OP LIFE	1036	HS40	135C, 1.8 V (PSA)	240 HRS	30	0	
HIGH TEMP OP LIFE	1036	MAX9259GCB/V+GG 4	135C	1000 HRS	30	0	
HIGH TEMP OP LIFE	1046	MAX3891ECB+	135C	1000 HRS	45	0	
HIGH TEMP OP LIFE	1046	MAX3891ECB+	135C	1000 HRS	45	0	
HIGH TEMP OP LIFE	1046	MAX9950DCCB+	135C	1000 HRS	77	0	
HIGH TEMP OP LIFE	1046	MAX9950DCCB+	135C	1000 HRS	77	0	
HIGH TEMP OP LIFE	1104	HS40	135C, 1.8 V (PSA)	1000 HRS	84	0	
HIGH TEMP OP LIFE	1104	HS41	135C, 3.6 V (PSA)	1000 HRS	81	0	
HIGH TEMP OP LIFE	1104	MAX9259GCB/V+	135C	1000 HRS	82	0	
HIGH TEMP OP LIFE	1111	HS41	135C, 3.6 V (PSA)	1000 HRS	89	0	
HIGH TEMP OP LIFE	1111	MAX9260GCB/V+GG 4	135C	1000 HRS	87	0	
HIGH TEMP OP LIFE	1119	MAX9263GCB/V+	135C, 1.8 V (PSA)	324 HRS	80	0	
HIGH TEMP OP LIFE	1122	HS41	135C, 3.6 V (PSA)	1000 HRS	84	0	
HIGH TEMP OP LIFE	1123	HS40	135C, 1.8 V (PSA)	1000 HRS	87	0	
HIGH TEMP OP LIFE	1123	MAX9259GCB/V+GG 4	135C	1000 HRS	90	0	
HIGH TEMP OP LIFE	1131	MAX9266	135C, 3.6 V (PSA)	1000 HRS	90	0	

HIGH TEMP OP LIFE	1131	MAX9266GCM/V+G G5	135C	1000 HRS	90	0
HIGH TEMP OP LIFE	1140	MAX19005CCS+	135C	334 HRS	25	0
				<b>Total:</b>		<b>0</b>
<b>FAILURE RATE:</b>	<b>MTTF (YRS): 228311 FITS: 0.5</b>					