

7/10/2017



**RELIABILITY MONITOR REPORT
FOR**

EMGA Package

MAXIM INTEGRATED

**160 RIO ROBLES
SAN JOSE, CA 95134**

**This Report was prepared by
MAXIM INTEGRATED 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
JCAP	10 EMGA

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 48672 FITS: 2.3

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 4/1/2017 and 6/30/2017.

Assembly Information:

Package Type: EMGA
Date Code Range: 1650 to 1650

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1631	MAXM17532AMB+	135°C	1000 HRS	79	0	
HIGH TEMP OP LIFE	1631	MAXM17532AMB+	135°C	1000 HRS	80	0	
HIGH TEMP OP LIFE	1631	MAXM17532AMB+	135°C	1000 HRS	77	0	
HIGH TEMP OP LIFE	1631	MAXM17532AMB+	135°C	192 HRS	79	0	
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE		MAXM15462AMB+	150°C	500 HRS	90	0	
STORAGE LIFE		MAXM15462AMB+	150°C	500 HRS	90	0	
STORAGE LIFE	1631	MAXM17532AMB+	150°C	1000 HRS	98	0	
STORAGE LIFE	1631	MAXM17532AMB+	150°C	1000 HRS	99	0	
STORAGE LIFE	1631	MAXM17532AMB+	150°C	1000 HRS	97	0	
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL		MAXM17532AMB+	-65C TO +150C (Condition C)	1000 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1631	MAXM17532AMB+	-65C TO +150C (Condition C)	500 CYS	100	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1631	MAXM17532AMB+	-65C TO +150C (Condition C)	500 CYS	100	0	

TEMP CYCLE, 5' RAMP, 10' DWELL	1631	MAXM17532AMB+	-65C TO +150C (Condition C)	750	CYS	80	0
Total:							0

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE	1650	MAXM17532AMB+	130C, 85% R.H.	264	HRS	41	0
Total:							0

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
MOISTURE SOAK		MAXM15462AMB+	130C, 85% R.H.	96	HRS	90	0
MOISTURE SOAK	1631	MAXM17532AMB+	85 C/85% R.H.	1000	HRS	78	0
Total:							0

FAILURE RATE: MTTF (YRS): 48672 FITS: 2.3