

8/1/2019



**RELIABILITY MONITOR REPORT
FOR**

MFN B3

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 Process Reliability Monitor. The specific products in this process monitor are:

MAX1744EUB/V	MAX3082EESA+	MAX3082EESA+	MAX4172ESA+	MXL1543CAI+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 5620 QUANTITY: 58 FAILS: 0 FITS: 20.3

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

Cf: 60% Ea: 0.7 Tu: 25 °C

The reliability data follows and in this section is the detailed reliability data by stress. The reliability data section includes the latest data available. This report covers data between 4/1/2019 and 8/1/2019 .

Process Information:

Process Description: MFN B3

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1825	MAX3082EESA+	125°C	500 HRS	58	0	JAGL53784CB
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1816	MXL1543CAI+	150°C	1000 HRS	85	0	JAGV8A161AB
STORAGE LIFE	1816	MXL1543CAI+	150°C	1000 HRS	84	0	JAGV8A161AC
STORAGE LIFE	1822	MAX1744EUB/V+	150°C	1000 HRS	80	0	J3KAI3489GX
STORAGE LIFE	1825	MAX3082EESA+	150°C	1000 HRS	80	0	JAGL53784CX
STORAGE LIFE	1825	MAX3082EESA+	150°C	1000 HRS	80	0	JAGL53784CB
STORAGE LIFE	1912	MAX4172ESA+	150°C	1000 HRS	80	0	JBJU3A048AB
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1816	MXL1543CAI+	-65C TO +150C (Condition C)	1000 CYS	80	0	JAGV8A161AB
TEMP CYCLE, 5' RAMP, 10' DWELL	1816	MXL1543CAI+	-65C TO +150C (Condition C)	1000 CYS	80	0	JAGV8A161AC
TEMP CYCLE, 5' RAMP, 10' DWELL	1822	MAX1744EUB/V+	-65C TO +150C (Condition C)	1000 CYS	80	0	J3KAI3489GX
TEMP CYCLE, 5' RAMP, 10' DWELL	1825	MAX3082EESA+	-65C TO +150C (Condition C)	1000 CYS	80	0	JAGL53784CX

TEMP CYCLE, 5' RAMP, 10' DWELL	1825	MAX3082EESA+	-65C TO +150C (Condition C)	1000	CYS	80	0	JAGL53784CB
TEMP CYCLE, 5' RAMP, 10' DWELL	1912	MAX4172ESA+	-65C TO +150C (Condition C)	1000	CYS	80	0	JBJU3A048AB
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1822	MAX1744EUB/V+	130C, 85% R.H.	96 HRS	80	0	J3KAI3489GX	
BIASED MOISTURE	1825	MAX3082EESA+	130C, 85% R.H.	96 HRS	79	0	JAGL53784CB	
Total:							0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
MOISTURE SOAK	1816	MXL1543CAI+	130C, 85% R.H.	96 HRS	80	0	JAGV8A161AB	
MOISTURE SOAK	1816	MXL1543CAI+	130C, 85% R.H.	96 HRS	80	0	JAGV8A161AC	
MOISTURE SOAK	1912	MAX4172ESA+	130C, 85% R.H.	96 HRS	80	0	JBJU3A048AB	
Total:							0	

FAILURE RATE: MTTF (YRS): 5620 QUANTITY: 58 FAILS: 0 FITS: 20.3