

1/24/2019



**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:

MAX13235EEUP	MAX1744EUB/V	MAX1745EUB/V	MAX3082EESA+	MAX6250BESA+
MXL1543CAI+				

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 32555 QUANTITY: 208 FAILS: 0 FITS: 3.5

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 10/1/2018 and 12/31/2018.

Process Information:

Process Description: MFN B3

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1744	MAX13235EEUP+	135°C	1000 HRS	48	0	JAHD9A078BX
HIGH TEMP OP LIFE	1744	MAX13235EEUP+	135°C	1000 HRS	32	0	JAHD9A078BX
HIGH TEMP OP LIFE	1806	MAX6250BESA+	135°C	500 HRS	80	0	NACQ33418AX
HIGH TEMP OP LIFE	1825	MAX3082EESA+	125°C	1000 HRS	48	0	JAGL53784CX
				Total:		0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1744	MAX13235EEUP+	150°C	1000 CYS	80	0	JAHD9A078BX
STORAGE LIFE	1806	MAX6250BESA+	150°C	1000 HRS	80	0	NACQ33418AX
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
				Total:		0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1744	MAX13235EEUP+	-65C TO +150C (Condition C)	1000 CYS	80	0	JAHD9A078BX
TEMP CYCLE, 5' RAMP, 10' DWELL	1806	MAX6250BESA+	-65C TO +150C (Condition C)	1000 CYS	78	0	NACQ33418AX

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
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1744	MAX13235EEUP+	85 C/85% R.H.	96	HRS	78	0	JAHD9A078BX
BIASED MOISTURE	1806	MAX6250BESA+	130C, 85% R.H.	96	HRS	41	0	NACQ33418AX
BIASED MOISTURE	1806	MAX6250BESA+	130C, 85% R.H.	96	HRS	80	0	NACQ33418AX
BIASED MOISTURE	1811	MAX1745EUB/V+	130C, 85% R.H.	500	HRS	80	0	J3KBIA478AB
BIASED MOISTURE	1822	MAX1744EUB/V+	130C, 85% R.H.		HRS	80	0	J3KAI3489GX
BIASED MOISTURE	1825	MAX3082EESA+	130C, 85% R.H.	96	HRS	80	0	JAGL53784CX
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
Total:							0	

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