

6/25/2020



**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:

MAX1745EUB/V	MAX3082EESA+	MAX3235EEWP	MAX4172ESA+	MAX4678EUE+
MAX809LEUR+				

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 59297 QUANTITY: 375 FAILS: 0 FITS: 1.9

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 1/1/2020 and 3/31/2020 .

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
HIGH TEMP OP LIFE	1912	MAX4172ESA+	125°C	500 HRS	80	0	JBJU3A048AE
HIGH TEMP OP LIFE	1927	MAX3082EESA+	125°C	1000 HRS	80	0	JAGL5A845DX
HIGH TEMP OP LIFE	1933	MAX4678EUE+	125°C	1000 HRS	80	0	JAHJ42059B
HIGH TEMP OP LIFE	1934	MAX809LEUR+T	125°C	1000 HRS	38	0	JACS32459A
HIGH TEMP OP LIFE	1934	MAX809LEUR+T	125°C	1000 HRS	39	0	JACS32459A
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1912	MAX4172ESA+	150°C	1000 HRS	80	0	JBJU3A048AE
STORAGE LIFE	1927	MAX3082EESA+	150°C	1000 HRS	80	0	JAGL5A845DX
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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	JBJU3A048AE
TEMP CYCLE, 5' RAMP, 10' DWELL	1927	MAX3082EESA+	-65C TO +150C (Condition C)	1000 CYS	80	0	JAGL5A845DX

Total: 0

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1825	MAX3082EESA+	130C, 85% R.H.	96 HRS	79	0	JAGL53784CB
BIASED MOISTURE	1912	MAX4172ESA+	130C, 85% R.H.	96 HRS	80	0	JBJU3A048AB
BIASED MOISTURE	1912	MAX4172ESA+	130C, 85% R.H.	96 HRS	80	0	JBJU3A048AE
BIASED MOISTURE	1952	MAX1745EUB/V+	130C, 85% R.H.	1000 HRS	80	0	J3KBI3555AX
Total:						0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	1916	MAX3235EEWP+G36	130C, 85% R.H.	96 HRS	80	0	MEVPCABACX
MOISTURE SOAK	1916	MAX3235EEWP+G36	130C, 85% R.H.	96 HRS	80	0	MEVPCABBX
MOISTURE SOAK	1927	MAX3082EESA+	130C, 85% R.H.	96 HRS	80	0	JAGL5A845DX
Total:						0	

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