

8/1/2019



**RELIABILITY MONITOR REPORT
FOR**

MFN CB20

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:

MAX4016ESA+	MAX4091ASA+	MAX4132EUA+	MAX9201EUE+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 41539 QUANTITY: 319 FAILS: 0 FITS: 2.7

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 CB20

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1829	MAX9201EUE+	125°C	192 HRS	80	0	R40361AB1
HIGH TEMP OP LIFE	1837	MAX4016ESA+	125°C	500 HRS	80	0	NC7ADA152FA
HIGH TEMP OP LIFE	1837	MAX4016ESA+	125°C	1000 HRS	79	0	NC7ADA152FA
HIGH TEMP OP LIFE	1914	MAX4091ASA+	125°C	1000 HRS	80	0	N110BA094AA
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1829	MAX9201EUE+	150°C	1000 HRS	80	0	R40361AX2
STORAGE LIFE	1837	MAX4016ESA+	150°C	1000 HRS	80	0	NC7ADA152FA
STORAGE LIFE	1911	MAX4132EUA+	150°C	1000 HRS	80	0	NTYCEA530EX
STORAGE LIFE	1914	MAX4091ASA+	150°C	1000 HRS	80	0	N110BA094AA
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1837	MAX4016ESA+	-65C TO +150C (Condition C)	1000 CYS	80	0	NC7ADA152FA
TEMP CYCLE, 5' RAMP, 10' DWELL	1911	MAX4132EUA+	-65C TO +150C (Condition C)	1000 CYS	80	0	NTYCEA530EX
TEMP CYCLE, 5' RAMP, 10' DWELL	1914	MAX4091ASA+	-65C TO +150C (Condition C)	1000 CYS	77	0	N110BA094AA
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1911	MAX4132EUA+	130C, 85% R.H.	96 HRS	80	0	NTYCEA530EX
BIASED MOISTURE	1914	MAX4091ASA+	130C, 85% R.H.	96 HRS	78	0	N110BA094AA
Total:						0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	1829	MAX9201EUE+	130C, 85% R.H.	96 HRS	80	0	R40361AH1
Total:						0	

FAILURE RATE: MTTF (YRS): 41539 QUANTITY: 319 FAILS: 0 FITS: 2.7