

1/24/2019



**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+	MAX494CSD+	MAX9201EUE+
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The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 38756    QUANTITY: 240    FAILS: 0    FITS: 2.9**

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 1/1/2019 and 12/31/2018.

**Process Information:**

Process Description:            MFN CB20

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1744	MAX494CSD+	135°C	500 HRS	80	0	N380B3108CA
HIGH TEMP OP LIFE	1747	MAX4016ESA+	135°C	1000 HRS	80	0	NC7ADA149E
HIGH TEMP OP LIFE	1829	MAX9201EUE+	125°C	1000 HRS	80	0	N0G0BA091AX
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1744	MAX494CSD+	150°C	1000 HRS	80	0	N380B3108CA
STORAGE LIFE	1747	MAX4016ESA+	150°C	1000 HRS	80	0	NC7ADA149E
STORAGE LIFE	1829	MAX9201EUE+	150°C	1000 HRS	80	0	N0G0BA091AX
<b>Total:</b>						<b>0</b>	

**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1744	MAX494CSD+	-65C TO +150C (Condition C)	1000 CYS	80	0	N380B3108CA
TEMP CYCLE, 5' RAMP, 10' DWELL	1747	MAX4016ESA+	-65C TO +150C (Condition C)	500 CYS	80	0	NC7ADA149E
TEMP CYCLE, 5' RAMP, 10' DWELL	1829	MAX9201EUE+	-65C TO +150C (Condition C)	1000 CYS	80	0	N0G0BA091AX
<b>Total:</b>						<b>0</b>	

**TEMPERATURE HUMIDITY BIAS**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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BIASED MOISTURE	1744	MAX494CSD+	85 C/85% R.H.	96	HRS	80	0	N380B3108CA
BIASED MOISTURE	1747	MAX4016ESA+	85 C/85% R.H.	96	HRS	79	0	NC7ADA149E
<b>Total:</b>							<b>0</b>	

**UNBIASED MOISTURE RESISTANCE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	1744	MAX494CSD+	130C, 85% R.H.	96	HRS	80	0 N380B3108CA
<b>Total:</b>							<b>0</b>
<b>FAILURE RATE:</b>	<b>MTTF (YRS): 38756</b>		<b>QUANTITY: 240</b>	<b>FAILS: 0</b>		<b>FITS: 2.9</b>	