

4/23/2015



**RELIABILITY MONITOR REPORT  
FOR**

**MFN Poly Emitter Complementary Bipolar (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:

LMX324AUD+B	MAX4395EUD/V	MAX492CSA+
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The calculated failure rate for devices using this process is:

**FAILURE RATE: MTTF (YRS): 15503      QUANTITY: 80      FAILS: 0      FITS: 7.4**

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 4/1/2014 and 3/31/2015 .

**Process Information:**

Process Description:      MFN Poly Emitter Complementary Bipolar (CB20)

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1426	LMX324AUD+B3Q	135°C	1000 HRS	80	0	N480AA304A
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1402	MAX492CSA+	150°C	1000 HRS	80	0	N1DOBA050I
STORAGE LIFE	1402	MAX492CSA+	150°C	1000 HRS	80	0	N1DOBA050IA
STORAGE LIFE	1402	MAX492CSA+	150°C	1000 HRS	80	0	N1DOBA050IB
STORAGE LIFE	1426	LMX324AUD+B3Q	150°C	1000 HRS	80	0	N480AA304A
<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	1402	MAX492CSA+	-65C TO +150C (Condition C)	1000 CYS	80	0	N1D0BA050I
TEMP CYCLE, 5' RAMP, 10' DWELL	1402	MAX492CSA+	-65C TO +150C (Condition C)	1000 CYS	80	0	N1D0BA050AI
TEMP CYCLE, 5' RAMP, 10' DWELL	1402	MAX492CSA+	-65C TO +150C (Condition C)	1000 CYS	80	0	N1D0BA050IB
TEMP CYCLE, 5' RAMP, 10' DWELL	1426	LMX324AUD+B3Q	-65C TO +150C (Condition C)	500 CYS	80	0	N480AA304A
TEMP CYCLE, 5' RAMP, 10' DWELL	1450	MAX4395EUD+	-65C TO +150C (Condition C)	500 CYS	80	0	N9Q0AA552H

<b>FAILURE RATE:</b>	<b>MTTF (YRS): 15503</b>	<b>QUANTITY: 80</b>	<b>Total:</b>	<b>0</b>
			<b>FAILS: 0</b>	<b>FITS: 7.4</b>