

10/23/2014



**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	MAX492CSA+	MAX913CSA+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 23254 QUANTITY: 160 FAILS: 0 FITS: 4.9

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 10/1/2013 and 9/30/2014 .

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	1211	MAX913CSA+	135°C	500 HRS	80	0	NKE0C2061E
HIGH TEMP OP LIFE	1211	MAX913CSA+	135°C	1000 HRS	80	0	NKE0C0261E
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1402	MAX492CSA+	150°C	500 HRS	80	0	N1D0BA050I
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
Total:						0	

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)	500 CYS	80	0	N1DOBA050IA
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)	200 CYS	80	0	N480AA304A

FAILURE RATE: **MTTF (YRS): 23254** **QUANTITY: 160** **Total:** **0**
FAILS: 0 **FITS: 4.9**