

10/27/2017



**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:

MAX3967AETG	MAX494ESD+	MAX913ESA+	MAX9201EUE+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 138748 QUANTITY: 796 FAILS: 0 FITS: 0.8

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 7/1/2017 and 9/30/2017 .

Process Information:

Process Description: MFN CB20

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1624	MAX913ESA+	135°C	1000 HRS	80	0	NKE0C3073HX
HIGH TEMP OP LIFE	1639	MAX913ESA+	135°C	1000 HRS	79	0	NKE0C3073U
HIGH TEMP OP LIFE	1639	MAX913ESA+	135°C	1000 HRS	79	0	NKE0C3073V
HIGH TEMP OP LIFE	1639	MAX913ESA+	135°C	500 HRS	80	0	NKE0C3073W
HIGH TEMP OP LIFE	1642	MAX9201EUE+	135°C	1000 HRS	80	0	N0G0B3085EX
HIGH TEMP OP LIFE	1645	MAX494ESD+	135°C	1000 HRS	80	0	N380B3103Q1
HIGH TEMP OP LIFE	1645	MAX494ESD+	135°C	1000 HRS	79	0	N380B3103Q2
HIGH TEMP OP LIFE	1645	MAX494ESD+	135°C	1000 HRS	79	0	N380B3103Q3
HIGH TEMP OP LIFE	1653	MAX9201EUE+	135°C	1000 HRS	80	0	N0G0BA086FX
HIGH TEMP OP LIFE	1726	MAX913ESA+	135°C	500 HRS	80	0	NKE0C2086A
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1624	MAX913ESA+	150°C	1000 HRS	80	0	NKE0C3073HX
STORAGE LIFE	1639	MAX913ESA+	150°C	500 HRS	90	0	NKE0C3073U
STORAGE LIFE	1639	MAX913ESA+	150°C	1000 HRS	90	0	NKE0C3073V
STORAGE LIFE	1639	MAX913ESA+	150°C	500 HRS	90	0	NKE0C3073W
STORAGE LIFE	1642	MAX9201EUE+	150°C	1000 HRS	80	0	N0G0B3085EX
STORAGE LIFE	1645	MAX494ESD+	150°C	500 HRS	90	0	N380B3103Q1
STORAGE LIFE	1645	MAX494ESD+	150°C	500 HRS	90	0	N380B3103Q2
STORAGE LIFE	1645	MAX494ESD+	150°C	1000 HRS	90	0	N380B3103Q1

STORAGE LIFE	1645	MAX494ESD+	150°C	500	HRS	90	0	N380B3103Q3
STORAGE LIFE	1645	MAX494ESD+	150°C	1000	HRS	90	0	N380B3103Q3
STORAGE LIFE	1653	MAX9201EUE+	150°C	1000	HRS	80	0	N0G0BA086FX
Total:							0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
TEMP CYCLE, 5' RAMP, 10' DWELL	1542	MAX3967AETG+	-65C TO +150C (Condition C)	1000	CYS	80	0	NZ0AB00007
TEMP CYCLE, 5' RAMP, 10' DWELL	1624	MAX913ESA+	-65C TO +150C (Condition C)	1000	CYS	80	0	NKE0C3073HX
TEMP CYCLE, 5' RAMP, 10' DWELL	1635	MAX494ESD+	-65C TO +150C (Condition C)	500	CYS	80	0	N380BA102QA
TEMP CYCLE, 5' RAMP, 10' DWELL	1639	MAX913ESA+	-65C TO +150C (Condition C)	1000	CYS	100	0	NKE0C3073U
TEMP CYCLE, 5' RAMP, 10' DWELL	1639	MAX913ESA+	-65C TO +150C (Condition C)	1000	CYS	100	0	NKE0C3073V
TEMP CYCLE, 5' RAMP, 10' DWELL	1639	MAX913ESA+	-65C TO +150C (Condition C)	1000	CYS	100	0	NKE0C3073W
TEMP CYCLE, 5' RAMP, 10' DWELL	1642	MAX9201EUE+	-65C TO +150C (Condition C)	1000	CYS	80	0	N0G0B3085EX
TEMP CYCLE, 5' RAMP, 10' DWELL	1645	MAX494ESD+	-65C TO +150C (Condition C)	500	CYS	100	0	N380B3103Q1
TEMP CYCLE, 5' RAMP, 10' DWELL	1645	MAX494ESD+	-65C TO +150C (Condition C)	500	CYS	100	0	N380B3103Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	1645	MAX494ESD+	-65C TO +150C (Condition C)	500	CYS	100	0	N380B3103Q3
TEMP CYCLE, 5' RAMP, 10' DWELL	1653	MAX9201EUE+	-65C TO +150C (Condition C)	1000	CYS	80	0	N0G0BA086FX
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1624	MAX913ESA+	130C, 85%	96	HRS	80	0	NKE0C3073HX
BIASED MOISTURE	1642	MAX9201EUE+	130C, 85%	96	HRS	80	0	N0G0B3085EX
BIASED MOISTURE	1653	MAX9201EUE+	130C, 85%	96	HRS	79	0	N0G0BA086FX
Total:							0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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MOISTURE SOAK	1635	MAX494ESD+	130C, 85%	96	HRS	80	0	N380BA102QA
MOISTURE SOAK	1639	MAX913ESA+	130C, 85%	96	HRS	80	0	NKE0C3073UC
MOISTURE SOAK	1639	MAX913ESA+	130C, 85%	96	HRS	79	0	NKE0C3073V
MOISTURE SOAK	1639	MAX913ESA+	130C, 85%	96	HRS	80	0	NKE0C3073W
					Total:		0	

FAILURE RATE: **MTTF (YRS): 138748** **QUANTITY: 796** **FAILS: 0** **FITS: 0.8**