

7/10/2017



**RELIABILITY MONITOR REPORT
FOR**

MFN SG5

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:

MAX222CWN+	MAX514BEWI+	MAX526CCWG+	MAX527DCWG+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 62010 QUANTITY: 320 FAILS: 0 FITS: 1.8

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 4/1/2017 and 6/30/2017 .

Process Information:

Process Description: MFN SG5

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1603	MAX514BEWI+	135°C	1000 HRS	80	0	BXTWBHAQ1
HIGH TEMP OP LIFE	1617	MAX527DCWG+	135°C	1000 HRS	80	0	NXEBDA078G
HIGH TEMP OP LIFE	1628	MAX526CCWG+	135°C	1000 HRS	80	0	NXEAEA079CB
HIGH TEMP OP LIFE	1638	MAX222CWN+	135°C	1000 HRS	80	0	NQS4AA527BC
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1617	MAX527DCWG+	150°C	1000 HRS	80	0	NXEBDA078G
STORAGE LIFE	1628	MAX526CCWG+	150°C	1000 HRS	80	0	NXEAEA079CB
STORAGE LIFE	1638	MAX222CWN+	150°C	1000 HRS	80	0	NQS4AA527BC
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1628	MAX526CCWG+	-65C TO +150C (Condition C)	1000 CYS	80	0	NXEAEA079CB
TEMP CYCLE, 5' RAMP, 10' DWELL	1638	MAX222CWN+	-65C TO +150C (Condition C)	1000 CYS	80	0	NQS4AA527BC
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1628	MAX526CCWG+	130C, 85%	96 HRS	79	0	NXEAEA079CB

BIASED MOISTURE	1638	MAX222CWN+	130C, 85%	96	HRS	80	0	NQS4AA527BC
					Total:		0	
FAILURE RATE:	MTTF (YRS):	62010	QUANTITY:	320	FAILS:	0	FITS:	1.8