

10/27/2017



**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+	MAX526CCWG+
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The calculated failure rate for devices using this process is:

**FAILURE RATE:    MTTF (YRS): 46508    QUANTITY: 240    FAILS: 0    FITS: 2.5**

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 SG5

**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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
HIGH TEMP OP LIFE	1718	MAX222CWN+	135°C	1000 HRS	80	0	NQS4AA550EC
<b>Total:</b>						<b>0</b>	

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1628	MAX526CCWG+	150°C	1000 HRS	80	0	NXEAEA079CB
STORAGE LIFE	1638	MAX222CWN+	150°C	1000 HRS	80	0	NQS4AA527BC
STORAGE LIFE	1718	MAX222CWN+	150°C	1000 HRS	80	0	NQS4AA550EC
<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	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
TEMP CYCLE, 5' RAMP, 10' DWELL	1718	MAX222CWN+	-65C TO +150C (Condition C)	1000 CYS	80	0	NQS4AA550EC
<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	1628	MAX526CCWG+	130C, 85%	96	HRS	79	0	NXEAEA079CB
BIASED MOISTURE	1638	MAX222CWN+	130C, 85%	96	HRS	80	0	NQS4AA527BC
BIASED MOISTURE	1718	MAX222CWN+	130C, 85%	96	HRS	79	0	NQS4AA550EC
<b>Total:</b>							<b>0</b>	

**FAILURE RATE:**      **MTTF (YRS): 46508**      **QUANTITY: 240**      **FAILS: 0**      **FITS: 2.5**