

6/25/2020



**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+	MAX232ACWE+	MAX233AEWP+	MAX268BCNG+
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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 1/1/2020 and 3/31/2020 .

Process Information:

Process Description: MFN SG5

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1907	MAX222CWN+	125°C	1000 HRS	80	0	NQS4AA2A6AX
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1907	MAX222CWN+	150°C	1000 HRS	80	0	NQS4AA2A6AX
STORAGE LIFE	1914	MAX233AEWP+G36	150°C	1000 HRS	80	0	MYLWBMUBX
STORAGE LIFE	1917	MAX222CWN+	150°C	1000 HRS	80	0	NQS4AA3A0G
STORAGE LIFE	1941	MAX232ACWE+	150°C	1000 HRS	80	0	NQS0AA3A6CX
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1907	MAX222CWN+	-65C TO +150C (Condition C)	1000 CYS	80	0	NQS4AA2A6AX
TEMP CYCLE, 5' RAMP, 10' DWELL	1914	MAX233AEWP+G36	-65C TO +150C (Condition C)	500 CYS	100	0	MYLWBMUAX
TEMP CYCLE, 5' RAMP, 10' DWELL	1914	MAX233AEWP+G36	-65C TO +150C (Condition C)	500 CYS	100	0	MYLWBMUBX
TEMP CYCLE, 5' RAMP, 10' DWELL	1917	MAX222CWN+	-65C TO +150C (Condition C)	1000 CYS	80	0	NQS4AA3A0G
TEMP CYCLE, 5' RAMP, 10' DWELL	1937	MAX268BCNG+	-65C TO +150C (Condition C)	500 CYS	80	0	NGEIEA249A

TEMP CYCLE, 5' RAMP, 10' DWELL	1941	MAX232ACWE+	-65C TO +150C (Condition C)	1000	CYS	80	0	NQS0AA3A6CX
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1907	MAX222CWN+	130C, 85% R.H.	96	HRS	78	0	NQS4AA2A6AX
Total:							0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
MOISTURE SOAK	1914	MAX233AEWP+G36	130C, 85% R.H.	96	HRS	80	0	MYLWBMUAX
MOISTURE SOAK	1914	MAX233AEWP+G36	130C, 85% R.H.	96	HRS	80	0	MYLWBMUBX
MOISTURE SOAK	1941	MAX232ACWE+	130C, 85% R.H.	96	HRS	80	0	NQS0AA3A6CX
Total:							0	

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