

6/25/2020



**RELIABILITY MONITOR REPORT
FOR**

MFN S5HV

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:

DG407DN+	MAX309CSE+	MAX309ESE+
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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 S5HV

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1943	MAX309CSE+	125°C	1000 HRS	80	0	NSXBHA0B0AX
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1924	MAX309ESE+	150°C	1000 HRS	80	0	NSXBHA8A6DX
STORAGE LIFE	1943	MAX309CSE+	150°C	1000 HRS	80	0	NSXBHA0B0AX
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1828	DG407DN+	-65C TO +150C (Condition C)	1000 CYS	80	0	NSZBHA593B
TEMP CYCLE, 5' RAMP, 10' DWELL	1924	MAX309ESE+	-65C TO +150C (Condition C)	1000 CYS	80	0	NSXBHA8A6DX
TEMP CYCLE, 5' RAMP, 10' DWELL	1938	MAX309ESE+	-65C TO +150C (Condition C)	1000 CYS	80	0	NSXBHA9A6AX
TEMP CYCLE, 5' RAMP, 10' DWELL	1943	MAX309CSE+	-65C TO +150C (Condition C)	1000 CYS	80	0	NSXBHA0B0AX
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1828	DG407DN+	130C, 85% R.H.	96 HRS	80	0	NSZBHA593B

Total: 0

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	1828	DG407DN+	130C, 85% R.H.	96 HRS	80	0	NSZBHA593B
MOISTURE SOAK	1924	MAX309ESE+	130C, 85% R.H.	96 HRS	80	0	NSXBHA8A6DX
MOISTURE SOAK	1943	MAX309CSE+	130C, 85% R.H.	96 HRS	80	0	NSXBHA0B0AX

Total: 0

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