

10/27/2017



**RELIABILITY MONITOR REPORT
FOR**

MFN HV3

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:

MAX5431AEUB	MAX5437EUD+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 33137 QUANTITY: 171 FAILS: 0 FITS: 3.4

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

Process Information:

Process Description: MFN HV3

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1635	MAX5437EUD+	135°C	1000 HRS	47	0	NAJ0BA078BX
HIGH TEMP OP LIFE	1637	MAX5431AEUB+	135°C	1000 HRS	44	0	N2L0E2036B
HIGH TEMP OP LIFE	1715	MAX5431AEUB+	135°C	1000 HRS	80	0	N2L0EA007GA
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1635	MAX5437EUD+	150°C	1000 HRS	80	0	NAJ0BA078BX
STORAGE LIFE	1715	MAX5431AEUB+	150°C	1000 HRS	80	0	N2L0EA007GA
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1537	MAX5437EUD+	-65C TO +150C (Condition C)	1000 CYS	80	0	NAJ0BA074A
TEMP CYCLE, 5' RAMP, 10' DWELL	1635	MAX5437EUD+	-65C TO +150C (Condition C)	1000 CYS	80	0	NAJ0BA078BX
TEMP CYCLE, 5' RAMP, 10' DWELL	1715	MAX5431AEUB+	-65C TO +150C (Condition C)	1000 CYS	80	0	N2L0EA007GA
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1635	MAX5437EUD+	130C, 85%	96 HRS	80	0	NAJ0BA078BX

BIASED MOISTURE	1715	MAX5431AEUB+	130C, 85%	96	HRS	80	0	N2L0EA007GA
					Total:		0	
FAILURE RATE:	MTTF (YRS):	33137	QUANTITY:	171	FAILS:	0	FITS:	3.4