

1/24/2019



**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	MAX6035AAUR	MAX6035BAUR
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 50771 QUANTITY: 262 FAILS: 0 FITS: 2.2

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 1/1/2019 and 12/31/2018.

Process Information:

Process Description: MFN HV3

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1751	MAX6035AAUR50+T	135°C	1000 HRS	45	0	NKR2CA052BA
HIGH TEMP OP LIFE	1804	MAX6035BAUR50+T	125°C	1000 HRS	47	0	NKR2C3062AA
HIGH TEMP OP LIFE	1804	MAX6035BAUR50+T	125°C	1000 HRS	43	0	NKR2C3062AA
HIGH TEMP OP LIFE	1816	MAX5431AEUB+	125°C	1000 HRS	80	0	N2L0EA007KX
HIGH TEMP OP LIFE	1835	MAX6035BAUR50+T	125°C	1000 HRS	47	0	NKR2C3067AA
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1751	MAX6035AAUR50+T	150°C	1000 HRS	80	0	NKR2CA052BA
STORAGE LIFE	1804	MAX6035BAUR50+T	150°C	1000 HRS	80	0	NKR2C3062AA
STORAGE LIFE	1816	MAX5431AEUB+	150°C	1000 HRS	80	0	N2L0EA007KX
STORAGE LIFE	1835	MAX6035BAUR50+T	150°C	1000 HRS	80	0	NKR2C3067AA
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1751	MAX6035AAUR50+T	-65C TO +150C (Condition C)	1000 CYS	80	0	NKR2CA052BA
TEMP CYCLE, 5' RAMP, 10' DWELL	1804	MAX6035BAUR50+T	-65C TO +150C (Condition C)	1000 CYS	80	0	NKR2C3062AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1816	MAX5431AEUB+	-65C TO +150C (Condition C)	1000 CYS	80	0	N2L0EA007KX

TEMP CYCLE, 5' RAMP, 10' DWELL	1835	MAX6035BAUR50+T	-65C TO +150C (Condition C)	1000	CYS	79	0	NKR2C3067AA
						Total:	0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1751	MAX6035AAUR50+T	85 C/85% R.H.	96	HRS	80	0	NKR2CA052BA
BIASED MOISTURE	1804	MAX6035BAUR50+T	130C, 85% R.H.	96	HRS	80	0	NKR2C3062AA
BIASED MOISTURE	1816	MAX5431AEUB+	130C, 85% R.H.		HRS	80	0	N2L0EA007KX
BIASED MOISTURE	1835	MAX6035BAUR50+T	130C, 85% R.H.	96	HRS	80	0	NKR2C3067AA
						Total:	0	

FAILURE RATE: MTTF (YRS): 50771 QUANTITY: 262 FAILS: 0 FITS: 2.2