

8/1/2019



**RELIABILITY MONITOR REPORT
FOR**

MFN B8

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:

MAX16076ATP/ MAX6895AAZT/	MAX16826ATJ+ MAX8538EEI+	MAX16826BATJ/ MAX9025EWT+	MAX4239ATT+T MAX9634HEWS	MAX5961ETM+ MAX9814ETD+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 166087 QUANTITY: 1114 FAILS: 0 FITS: 0.7

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 4/1/2019 and 8/1/2019 .

Process Information:

Process Description: MFN B8

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1804	MAX5961ETM+	125°C	1000 HRS	32	0	JADL9A181AA
HIGH TEMP OP LIFE	1811	MAX6895AAZT/V+T	125°C	1000 HRS	80	0	JIAABA137JF
HIGH TEMP OP LIFE	1811	MAX6895AAZT/V+T	125°C	1000 HRS	80	0	JIAABA137JG
HIGH TEMP OP LIFE	1811	MAX6895AAZT/V+T	125°C	1000 HRS	80	0	JIAABA137JG
HIGH TEMP OP LIFE	1811	MAX6895AAZT/V+T	125°C	192 HRS	80	0	JIAABA137JG
HIGH TEMP OP LIFE	1816	MAX16826ATJ+	125°C	1000 HRS	80	0	JFYF3243FX
HIGH TEMP OP LIFE	1818	MAX16076ATP/V+CNA	125°C	500 HRS	80	0	JBHA32195A
HIGH TEMP OP LIFE	1818	MAX16076ATP/V+CNA	125°C	1000 HRS	80	0	JBHA32195A
HIGH TEMP OP LIFE	1837	MAX9025EWT+TG7	125°C	1000 HRS	80	0	JOY0CA158AJ
HIGH TEMP OP LIFE	1837	MAX9025EWT+TG7	125°C	1000 HRS	80	0	TOY0DA097CM
HIGH TEMP OP LIFE	1840	MAX9814ETD+	125°C	1000 HRS	45	0	TAPZDA092AA
HIGH TEMP OP LIFE	1847	MAX16826BATJ/V+	125°C	1000 HRS	80	0	JFYWA3284BB
HIGH TEMP OP LIFE	1901	MAX16826ATJ+	125°C	500 HRS	46	0	JFYF272DX
HIGH TEMP OP LIFE	1901	MAX16826ATJ+	125°C	1000 HRS	31	0	JFYF272DX
HIGH TEMP OP LIFE	1910	MAX4239ATT+T	125°C	192 HRS	80	0	J5G1EA184CX
HIGH TEMP OP LIFE	1912	MAX16076ATP/V+CNA	125°C	192 HRS	80	0	JBHA32195B
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1752	MAX9634HEWS+TG7	150°C	1000 HRS	80	0	JMKXCA255CJ

STORAGE LIFE	1811	MAX6895AAZT/V+T	150°C	1000 HRS	79	0	JIAABA137JF
STORAGE LIFE	1811	MAX6895AAZT/V+T	150°C	1000 HRS	79	0	JIAABA137JG
STORAGE LIFE	1811	MAX6895AAZT/V+T	150°C	1000 HRS	78	0	JIAABA137JG
STORAGE LIFE	1811	MAX6895AAZT/V+T	150°C	1000 HRS	79	0	JIAABA137JG
STORAGE LIFE	1837	MAX9025EWT+TG7	150°C	1000 HRS	80	0	JOY0CA158AJ
STORAGE LIFE	1837	MAX9025EWT+TG7	150°C	1000 HRS	80	0	TOY0DA097CM
STORAGE LIFE	1840	MAX9814ETD+	150°C	1000 HRS	80	0	TAPZDA092AA
STORAGE LIFE	1901	MAX16826ATJ+	150°C	1000 HRS	80	0	JFYFYA272DX
STORAGE LIFE	1910	MAX4239ATT+T	150°C	1000 HRS	80	0	J5G1EA184CX
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1752	MAX9634HEWS+TG7	-40C TO +125C (Condition G)	1000 CYS	80	0	JMKXCA255CJ
TEMP CYCLE, 5' RAMP, 10' DWELL	1752	MAX9634HEWS+TG7	-40C TO +125C (Condition G)	1000 CYS	80	0	JMKXCA255CJ
TEMP CYCLE, 5' RAMP, 10' DWELL	1810	MAX8538EEI+	-65C TO +150C (Condition C)	1000 CYS	80	0	JGN1F3195BA
TEMP CYCLE, 5' RAMP, 10' DWELL	1811	MAX6895AAZT/V+T	-65C TO +150C (Condition C)	1000 CYS	77	0	JIAABA137JF
TEMP CYCLE, 5' RAMP, 10' DWELL	1811	MAX6895AAZT/V+T	-65C TO +150C (Condition C)	1000 CYS	79	0	JIAABA137JG
TEMP CYCLE, 5' RAMP, 10' DWELL	1811	MAX6895AAZT/V+T	-65C TO +150C (Condition C)	1000 CYS	80	0	JIAABA137JG
TEMP CYCLE, 5' RAMP, 10' DWELL	1811	MAX6895AAZT/V+T	-65C TO +150C (Condition C)	1000 CYS	80	0	JIAABA137JG
TEMP CYCLE, 5' RAMP, 10' DWELL	1811	MAX6895AAZT/V+T	-65C TO +150C (Condition C)	1000 CYS	80	0	JIAABA137JG
TEMP CYCLE, 5' RAMP, 10' DWELL	1816	MAX16826ATJ+	-65C TO +150C (Condition C)	1000 CYS	80	0	JFYF3243FX
TEMP CYCLE, 5' RAMP, 10' DWELL	1840	MAX9814ETD+	-65C TO +150C (Condition C)	1000 CYS	80	0	TAPZDA092AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1847	MAX16826BATJ/V+	-65C TO +150C (Condition C)	1000 CYS	80	0	JFYWA3284BB
TEMP CYCLE, 5' RAMP, 10' DWELL	1901	MAX16826ATJ+	-65C TO +150C (Condition C)	1000 CYS	80	0	JFYFYA272DX
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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BIASED MOISTURE	1752	MAX9634HEWS+TG7	130C, 85% R.H.	96	HRS	80	0	JMKXCA255CJ
BIASED MOISTURE	1811	MAX6895AAZT/V+T	130C, 85% R.H.	96	HRS	80	0	JIAABA137JF
BIASED MOISTURE	1811	MAX6895AAZT/V+T	130C, 85% R.H.	96	HRS	80	0	JIAABA137JG
BIASED MOISTURE	1811	MAX6895AAZT/V+T	130C, 85% R.H.	96	HRS	79	0	JIAABA137JG
BIASED MOISTURE	1811	MAX6895AAZT/V+T	130C, 85% R.H.	96	HRS	79	0	JIAABA137JG
BIASED MOISTURE	1816	MAX16826ATJ+	130C, 85% R.H.	96	HRS	80	0	JFYF3243FX
BIASED MOISTURE	1840	MAX9814ETD+	130C, 85% R.H.	96	HRS	80	0	TAPZDA092AA
BIASED MOISTURE	1847	MAX16826BATJ/V+	130C, 85% R.H.	96	HRS	39	0	JFYWA3284BB
BIASED MOISTURE	1847	MAX16826BATJ/V+	130C, 85% R.H.	96	HRS	39	0	JFYWA3284BB
BIASED MOISTURE	1910	MAX4239ATT+T	130C, 85% R.H.	96	HRS	80	0	J5G1EA184CX
Total:							0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
MOISTURE SOAK	1811	MAX6895AAZT/V+T	130C, 85% R.H.	96	HRS	80	0	JIAABA137JF
MOISTURE SOAK	1811	MAX6895AAZT/V+T	130C, 85% R.H.	96	HRS	80	0	JIAABA137JG
MOISTURE SOAK	1901	MAX16826ATJ+	130C, 85% R.H.	96	HRS	80	0	JFYF272DX
MOISTURE SOAK	1910	MAX4239ATT+T	130C, 85% R.H.	96	HRS	80	0	J5G1EA184CX
Total:							0	

FAILURE RATE: MTTF (YRS): 166087 QUANTITY: 1114 FAILS: 0 FITS: 0.7