

10/27/2017



**RELIABILITY MONITOR REPORT
FOR**

Epson MB3

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:

MAX2141ETH/V	MAX2172ETL/V	MAX2769BETI/	MAX3521ETP+	MAX3949ETE+
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The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 70671 QUANTITY: 559 FAILS: 0 FITS: 1.6

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: Epson MB3

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1604	MAX3949ETE+	135°C	192 HRS	80	0	EBBT7Q003E#
HIGH TEMP OP LIFE	1629	MAX2172ETL/V+	135°C	1000 HRS	80	0	EAKE6A176DA
HIGH TEMP OP LIFE	1630	MAX2769BETI/V+	135°C	192 HRS	80	0	EBAH3A004DA
HIGH TEMP OP LIFE	1632	MAX2769BETI/V+	135°C	192 HRS	80	0	EBAH3Q003L#
HIGH TEMP OP LIFE	1643	MAX2141ETH/V+	135°C	1000 HRS	80	0	EBAK9A022AB
HIGH TEMP OP LIFE	1704	MAX2172ETL/V+	135°C	1000 HRS	80	0	EAKE6A215CG
HIGH TEMP OP LIFE	1714	MAX3521ETP+	135°C	1000 HRS	79	0	EANL4A061AB
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1629	MAX2172ETL/V+	150°C	1000 HRS	80	0	EAKE6A176DA
STORAGE LIFE	1643	MAX2141ETH/V+	150°C	1000 HRS	80	0	EBAK9A022AB
STORAGE LIFE	1704	MAX2172ETL/V+	150°C	1000 HRS	80	0	EAKE6A215CG
STORAGE LIFE	1714	MAX3521ETP+	150°C	1000 HRS	80	0	EANL4A061AB
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1629	MAX2172ETL/V+	-65C TO +150C (Condition C)	1000 CYS	80	0	EAKE6A176DA
TEMP CYCLE, 5' RAMP, 10' DWELL	1643	MAX2141ETH/V+	-65C TO +150C (Condition C)	1000 CYS	80	0	EBAK9A022AB

TEMP CYCLE, 5' RAMP, 10' DWELL	1704	MAX2172ETL/V+	-65C TO +150C (Condition C)	1000	CYS	80	0	EAKE6A215CG
TEMP CYCLE, 5' RAMP, 10' DWELL	1714	MAX3521ETP+	-65C TO +150C (Condition C)	1000	CYS	80	0	EANL4A061AB
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1630	MAX2769BETI/V+	130C, 85%	96	HRS	38	0 EBAH3A004DA	
BIASED MOISTURE	1632	MAX2769BETI/V+	130C, 85%	96	HRS	38	0 EBAH3A003L#	
BIASED MOISTURE	1643	MAX2141ETH/V+	130C, 85%	96	HRS	40	0 EBAK9A022AB	
BIASED MOISTURE	1643	MAX2141ETH/V+	130C, 85%	96	HRS	40	0 EBAK9A022AB	
BIASED MOISTURE	1704	MAX2172ETL/V+	130C, 85%	96	HRS	40	0 EAKE6A215CG	
BIASED MOISTURE	1704	MAX2172ETL/V+	130C, 85%	96	HRS	40	0 EAKE6A215CG	
BIASED MOISTURE	1714	MAX3521ETP+	130C, 85%	96	HRS	40	0 EANL4A061AB	
BIASED MOISTURE	1714	MAX3521ETP+	130C, 85%	96	HRS	40	0 EANL4A061AB	
Total:							0	
FAILURE RATE:	MTTF (YRS): 70671		QUANTITY: 559	FAILS: 0		FITS: 1.6		