



5/9/2009

RELIABILITY MONITOR REPORT
FOR

Epson 0.6 μ m Silicon Gate CMOS

MAXIM Integrated Products

120 San Gabriel Dr.
Sunnyvale, CA 94086

This Report was prepared by
Maxim 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:

MAX9776ETJ+	MAX9789AETJ+	MAX9789AETL+
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The calculated failure rate for devices using this process is:

FAILURE RATE: **MTTF (YRS): 42723** **FITS: 2.7**

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 1/1/2008 and 12/31/2008.

Process Information:

Process Description: Epson 0.6µm Silicon Gate CMOS

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0747	MAX9789AETJ+	135C	1000 HRS	78	0	EZ00HQ001BC
HIGH TEMP OP LIFE	0752	MAX9776ETJ+	135C	1000 HRS	48	0	ET61FQ001BA
HIGH TEMP OP LIFE	0806	MAX9789AETJ+	135C	1000 HRS	77	0	EZ00HQ002D
HIGH TEMP OP LIFE	0825	MAX9789AETL+	135C	192 HRS	43	0	EZ00LA106AQ
HIGH TEMP OP LIFE	0831	MAX9776ETJ+	135C	192 HRS	48	0	ET61FQ001AQ
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	075	MAX9789AETJ+	150C	1000 HRS	80	0	EZ00HQ001BC
STORAGE LIFE	0806	MAX9789AETJ+	150C	1000 HRS	80	0	EZ00HQ002D
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	0750	MAX9789AETJ+	-65C TO 150C	1000 CYS	80	0	EZ00HQ001BC
TEMP CYCLE, 5' RAMP, 10' DWELL	0752	MAX9776ETJ+	-65C TO 150C	1000 CYS	80	0	ET61FQ001BA
TEMP CYCLE, 5' RAMP, 10' DWELL	0806	MAX9789AETJ+	-65C TO 150C	500 CYS	80	0	EZ00HQ002D
Total:						0	

FAILURE RATE: **MTTF (YRS): 42723** **FITS: 2.7**