

8/1/2019



**RELIABILITY MONITOR REPORT
FOR**

Epson C6

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:

MAX1030BEEG+	MAX1138EEE+	MAX1231BCEG	MAX1257BETM	MAX5441AEUA
MAX5550ETE+				

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 85264 QUANTITY: 480 FAILS: 0 FITS: 1.3

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: Epson C6

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1812	MAX5441AEUA+	125°C	1000 HRS	80	0	E1LBGA035FD
HIGH TEMP OP LIFE	1817	MAX1231BCEG+	125°C	1000 HRS	80	0	EF4ZAA072BC
HIGH TEMP OP LIFE	1817	MAX1231BCEG+	125°C	1000 HRS	80	0	EF4ZAA072BD
HIGH TEMP OP LIFE	1823	MAX1138EEE+	125°C	500 HRS	80	0	E3N21A145BA
HIGH TEMP OP LIFE	1823	MAX1138EEE+	125°C	1000 HRS	80	0	E3N21A145BB
HIGH TEMP OP LIFE	1828	MAX1030BEEG+	125°C	1000 HRS	80	0	EF4ZAA077DX
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1804	MAX1257BETM+	150°C	1000 HRS	80	0	EEQ1KA253DA
STORAGE LIFE	1812	MAX5441AEUA+	150°C	1000 HRS	79	0	E1LBGA035FD
STORAGE LIFE	1817	MAX1231BCEG+	150°C	1000 HRS	80	0	EF4ZAA072BC
STORAGE LIFE	1817	MAX1231BCEG+	150°C	1000 HRS	80	0	EF4ZAA072BD
STORAGE LIFE	1823	MAX1138EEE+	150°C	1000 HRS	80	0	E3N21A145BA
STORAGE LIFE	1823	MAX1138EEE+	150°C	1000 HRS	80	0	E3N21A145BB
STORAGE LIFE	1828	MAX1030BEEG+	150°C	1000 HRS	80	0	EF4ZAA077DX
STORAGE LIFE	1907	MAX5550ETE+	150°C	500 HRS	80	0	EIIABA01FX
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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TEMP CYCLE, 5' RAMP, 10' DWELL	1812	MAX5441AEUA+	-65C TO +150C (Condition C)	1000	CYS	80	0	E1LBGA035FD
TEMP CYCLE, 5' RAMP, 10' DWELL	1823	MAX1138EEE+	-65C TO +150C (Condition C)	1000	CYS	78	0	E3N21A145BA
TEMP CYCLE, 5' RAMP, 10' DWELL	1823	MAX1138EEE+	-65C TO +150C (Condition C)	1000	CYS	78	0	E3N21A145BB
TEMP CYCLE, 5' RAMP, 10' DWELL	1828	MAX1030BEEG+	-65C TO +150C (Condition C)	1000	CYS	80	0	EF4ZAA077DX
TEMP CYCLE, 5' RAMP, 10' DWELL	1907	MAX5550ETE+	-65C TO +150C (Condition C)	500	CYS	80	0	EIIABA01FX
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	1812	MAX5441AEUA+	130C, 85% R.H.	96 HRS	80	0	E1LBGA035FD
BIASED MOISTURE	1817	MAX1231BCEG+	130C, 85% R.H.	96 HRS	80	0	EF4ZAA072BC
BIASED MOISTURE	1817	MAX1231BCEG+	130C, 85% R.H.	96 HRS	80	0	EF4ZAA072BD
BIASED MOISTURE	1828	MAX1030BEEG+	130C, 85% R.H.	96 HRS	8	0	EF4ZAA077DX
Total:							0

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	1823	MAX1138EEE+	130C, 85% R.H.	96 HRS	80	0	E3N21A145BA
MOISTURE SOAK	1823	MAX1138EEE+	130C, 85% R.H.	96 HRS	80	0	E3N21A145BB
MOISTURE SOAK	1907	MAX5550ETE+	130C, 85% R.H.	500 HRS	80	0	EIIABA01FX
Total:							0

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