

1/24/2019



**RELIABILITY MONITOR REPORT  
FOR**

**MFN C3**

**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:

MAX3222CUP+	MAX3222CUP+	MAX3223EEUP+	MAX33250EELC
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The calculated failure rate for devices using this process is:

**FAILURE RATE: MTTF (YRS): 92628 QUANTITY: 558 FAILS: 0 FITS: 1.2**

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 10/1/2018 and 12/31/2018.

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**Process Information:**

Process Description: MFN C3

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**OPERATING LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE		MAX3222CUP+	125°C	1000 HRS	79	0	JABA2A590A
HIGH TEMP OP LIFE	1738	MAX3223EEUP+	135°C	1000 HRS	80	0	JAKC0A143AX
HIGH TEMP OP LIFE	1808	MAX3223EEUP+	135°C	1000 HRS	79	0	JAKC0A200H
HIGH TEMP OP LIFE	1817	MAX3222CUP+	125°C	1000 HRS	80	0	JABA2A511KX
HIGH TEMP OP LIFE	1826	MAX33250EELC+	125°C	1000 HRS	80	0	3BSU8A
HIGH TEMP OP LIFE	1826	MAX33250EELC+	125°C	500 HRS	80	0	3BSU8A
HIGH TEMP OP LIFE	1826	MAX33250EELC+	125°C	500 HRS	80	0	3BSU8A
<b>Total:</b>						<b>0</b>	

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**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE		MAX3222CUP+	150°C	1000 HRS	80	0	JABA2A590A
STORAGE LIFE	1738	MAX3223EEUP+	150°C	1000 HRS	80	0	JAKC0A143AX
STORAGE LIFE	1808	MAX3223EEUP+	150°C	1000 HRS	80	0	JAKC0A200H
STORAGE LIFE	1817	MAX3222CUP+	150°C	1000 HRS	75	0	JABA2A511KX
STORAGE LIFE	1826	MAX33250EELC+	150°C	1000 HRS	80	0	3BSU8A
STORAGE LIFE	1826	MAX33250EELC+	150°C	500 HRS	80	0	3BSU8A
STORAGE LIFE	1826	MAX33250EELC+	150°C	500 HRS	80	0	3BSU8A
<b>Total:</b>						<b>0</b>	

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**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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TEMP CYCLE, 5' RAMP, 10' DWELL		MAX3222CUP+	-65C TO +150C (Condition C)	1000 CYS	80	0	JABA2A590A
TEMP CYCLE, 5' RAMP, 10' DWELL	1738	MAX3223EEUP+	-65C TO +150C (Condition C)	1000 CYS	80	0	JAKC0A143AX
TEMP CYCLE, 5' RAMP, 10' DWELL	1808	MAX3223EEUP+	-65C TO +150C (Condition C)	1000 CYS	80	0	JAKC0A200H
TEMP CYCLE, 5' RAMP, 10' DWELL	1817	MAX3222CUP+	-65C TO +150C (Condition C)	1000 CYS	80	0	JABA2A511KX
TEMP CYCLE, 5' RAMP, 10' DWELL	1826	MAX33250EELC+	-40C TO +125C (Condition G)	1000 CYS	80	0	3BSU8A
TEMP CYCLE, 5' RAMP, 10' DWELL	1826	MAX33250EELC+	-55C TO +125C (Condition B)	500 CYS	80	0	3BSU8A
TEMP CYCLE, 5' RAMP, 10' DWELL	1826	MAX33250EELC+	-40C TO +125C (Condition G)	1000 CYS	80	0	3BSU8A
TEMP CYCLE, 5' RAMP, 10' DWELL	1826	MAX33250EELC+	-55C TO +125C (Condition B)	500 CYS	80	0	3BSU8A
TEMP CYCLE, 5' RAMP, 10' DWELL	1826	MAX33250EELC+	-40C TO +125C (Condition G)	1000 CYS	80	0	3BSU8A
TEMP CYCLE, 5' RAMP, 10' DWELL	1826	MAX33250EELC+	-55C TO +125C (Condition B)	500 CYS	80	0	3BSU8AD
<b>Total:</b>						<b>0</b>	

### TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE		MAX3222CUP+	130C, 85% R.H.	HRS	80	0	JABA2A511KX
BIASED MOISTURE		MAX3222CUP+	130C, 85% R.H.	96 HRS	80	0	JABA2A590A
BIASED MOISTURE	1738	MAX3223EEUP+	85 C/85% R.H.	96 HRS	78	0	JAKC0A143AX
BIASED MOISTURE	1808	MAX3223EEUP+	130C, 85% R.H.	96 HRS	78	0	JAKC0A200H
BIASED MOISTURE	1826	MAX33250EELC+	85 C/85% R.H.	500 HRS	48	0	3BSU8A
BIASED MOISTURE	1826	MAX33250EELC+	85 C/85% R.H.	500 HRS	48	0	3BSU8A
BIASED MOISTURE	1826	MAX33250EELC+	85 C/85% R.H.	500 HRS	48	0	3BSU8A
<b>Total:</b>						<b>0</b>	

**FAILURE RATE: MTTF (YRS): 92628 QUANTITY: 558 FAILS: 0 FITS: 1.2**