

1/24/2019



**RELIABILITY MONITOR REPORT
FOR**

Fab 102 S90

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:

MAX77324EWT	MAX97937EWX	MAX98373EFF+	MAX98373EWA	MAX98728AEN
MAX98728BEN	MAX98740BENL	MAX98928EWX		

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 123481 QUANTITY: 878 FAILS: 0 FITS: 0.9

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.

Process Information:

Process Description: Fab 102 S90

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1733	MAX98728AENX+T	135°C	1000 HRS	78	0	HBTE4Q001A#
HIGH TEMP OP LIFE	1744	MAX98728AENX+T	135°C	1000 HRS	80	0	HBTE4Q003BA
HIGH TEMP OP LIFE	1745	MAX77324EWTAD+	135°C	192 HRS	48	0	HBTT8Q001E#
HIGH TEMP OP LIFE	1746	MAX98373EWA+T	135°C	1000 HRS	96	0	HBUG5A004D
HIGH TEMP OP LIFE	1747	MAX98740BENL+T	135°C	1000 HRS	80	0	HBUM9Q001J
HIGH TEMP OP LIFE	1749	MAX98740BENL+T	135°C	1000 HRS	80	0	HBUM9Q002B
HIGH TEMP OP LIFE	1806	MAX98728BENX+	135°C	192 HRS	91	0	HBYP9A005C#
HIGH TEMP OP LIFE	1806	MAX98728BENX+	125°C	1000 HRS	67	0	HBYP9A005CC
HIGH TEMP OP LIFE	1806	MAX98728BENX+	125°C	1000 HRS	19	0	HBYP9A005CC
HIGH TEMP OP LIFE	1806	MAX98740BENL+T	135°C	1000 HRS	80	0	HBUM9Q003EA
HIGH TEMP OP LIFE	1813	MAX98373EFF+	125°C	192 HRS	79	0	HBUD9A005EQ
HIGH TEMP OP LIFE	1842	MAX97937EWX+T	125°C	192 HRS	80	0	CCUU3Q001D
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1733	MAX98728AENX+T	150°C	1000 HRS	80	0	HBTE4Q001A#
STORAGE LIFE	1744	MAX98728AENX+T	150°C	1000 HRS	80	0	HBTE4Q003B#
STORAGE LIFE	1747	MAX98740BENL+T	150°C	1000 HRS	80	0	HBUM9Q001J
STORAGE LIFE	1749	MAX98740BENL+T	150°C	1000 HRS	80	0	HBUM9Q002B
STORAGE LIFE	1806	MAX98728BENX+	150°C	1000 HRS	90	0	HBYP9A005C#

STORAGE LIFE	1806	MAX98740BENL+T	150°C	1000	HRS	80	0	HBUM9Q003EA
Total:							0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1745	MAX98728AENX+T	130C, 85% R.H.	130	HRS	80	0	HBTE4Q003C#
BIASED MOISTURE	1745	MAX98728AENX+T	130C, 85% R.H.		HRS	41	0	HBTE4Q003C#
Total:							0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
MOISTURE SOAK	1732	MAX98928EWX+T	130C, 85% R.H.	96	HRS	33	0	HBKK9A069CN
MOISTURE SOAK	1732	MAX98928EWX+T	130C, 85% R.H.	96	HRS	33	0	HBKK9A0071AN
MOISTURE SOAK	1732	MAX98928EWX+T	130C, 85% R.H.	96	HRS	33	0	HBKK9A0036DN
Total:							0	

FAILURE RATE: MTTF (YRS): 123481 QUANTITY: 878 FAILS: 0 FITS: 0.9