



4/11/2009

RELIABILITY MONITOR REPORT
FOR

MELEXIS Standard Metal-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:

ICL665AESA+	ICL7665AEPA	ICL7665AEPA+	ICL7665AESA+
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The calculated failure rate for devices using this process is:

FAILURE RATE: **MTTF (YRS): 19766** **FITS: 5.8**

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 10/1/2007 and 9/30/2008 .

Process Information:

Process Description: MELEXIS Standard Metal-Gate CMOS

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	0727	ICL7665AEPA+	135C	408 HRS	250	0	NYUADA061P
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	0642	ICL7665AEPA	150C	500 HRS	100	0	NYUADA060N
STORAGE LIFE	0741	ICL7665AESA+	150C	1000 HRS	160	0	NYUADA063F#
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	0741	ICL665AESA+	-65C TO 150C	500 CYS	80	0	NYUADA063F#
TEMP CYCLE, 5' RAMP, 10' DWELL	0741	ICL7665AESA+	-65C TO 150C	1000 CYS	80	0	NYUADA063F#
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
BIASED MOISTURE	0741	ICL665AESA+	130C, 85% R.H.	96 HRS	106	0	NYUADA063F#
BIASED MOISTURE	0741	ICL7665AESA+	130C, 85% R.H.	96 HRS	104	0	NYUADA063F#
Total:						0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
MOISTURE SOAK	0741	ICL7665AESA+	130C, 85% R.H.	96 HRS	80	0	NYUADA063F#

FAILURE RATE: **MTTF (YRS): 19766** **FITS: 5.8** **Total: 0**