

4/16/2014



**RELIABILITY MONITOR REPORT  
FOR**

**X3 0.18 $\mu$ m Silicon Gate CMOS (S18)**

**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:

DS2483	DS2484	MAX 88920EFD	MAX14571EUD	MAX14659ETE+
MAX14778ETP+	MAX14921ECS+	MAX15062AAT	MAX15070AAU	MAX15091ETI+
MAX15091TI+	MAX15118EAI+	MAX15511GTL+	MAX16083XR31	MAX16083XR32
MAX16936RAT	MAX16936RAT	MAX16936RAT	MAX16956AUB	MAX16962RAT
MAX16963SATE	MAX16992ATCF	MAX16993AGJC	MAX16993GJC/	MAX17140AETL
MAX17491GTA+	MAX17501BAT	MAX17501GAT	MAX17502HAT	MAX17511GTL+
MAX175511GTL	MAX2180AETG/	MAX2180AETG	MAX2181AETE/	MAX2181ETE/V
MAX2181ETE+	MAX31740	MAX31790	MAX3601CWO+	MAX44005EDT+
MAX44285TAU	MAX5704AUB+	MAX5824AUP+	MAX77311EWE	MAX88920EFD+
MAX88920EFD+	MAX9688ETI+	MAX9695AETM	MAX9695ETM+	

The calculated failure rate for devices using this process is:

**FAILURE RATE: MTTF (YRS): 70640 QUANTITY: 6171 FAILS: 7 FITS: 1.6**

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 4/1/2013 and 3/31/2014 .

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## Process Information:

Process Description: X3 0.18µm Silicon Gate CMOS (S18)

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## OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
HIGH TEMP OP LIFE	1147	MAX9688ETI+	135°C	500 HRS	40	0	S2WYBQ001DA
HIGH TEMP OP LIFE	1213	MAX5824AUP+	135°C	192 HRS	80	0	SACJ9Q002AQ
HIGH TEMP OP LIFE	1217	MAX9695ETM+	135°C	1000 HRS	45	0	SJ9ZHA044Q1
HIGH TEMP OP LIFE	1217	MAX9695ETM+	135°C	1000 HRS	45	0	SJ9ZHA044Q2
HIGH TEMP OP LIFE	1217	MAX9695ETM+	135°C	1000 HRS	45	0	SJ9ZHA044Q3
HIGH TEMP OP LIFE	1219	MAX9695ETM+	135°C	500 HRS	45	0	SJ9ZHA044CA
HIGH TEMP OP LIFE	1227	MAX9695ETM+	135°C	1000 HRS	32	0	SJ9ZH3049Q3
HIGH TEMP OP LIFE	1227	MAX9695ETM+	135°C	1000 HRS	32	0	SJ9ZH3049Q4
HIGH TEMP OP LIFE	1235	MAX16083XR31L+T	135°C	1000 HRS	80	0	SK1XEA004BC
HIGH TEMP OP LIFE	1242	MAX3601CWO+T	135°C	192 HRS	40	0	SAEZ3Q001FQ
HIGH TEMP OP LIFE	1242	MAX3601CWO+T	135°C	192 HRS	40	0	SAEZ3Q001EQ
HIGH TEMP OP LIFE	1243	MAX14571EUD+	135°C	192 HRS	80	1	SAJO0Q002AQ
HIGH TEMP OP LIFE	1243	MAX77311EWE+T	135°C	500 HRS	48	0	SAJX9Q001AQ
HIGH TEMP OP LIFE	1244	DS2483	125C, 5.25 VOLTS	1000 HRS	45	0	ZJ330302AE
HIGH TEMP OP LIFE	1244	MAX17140AETL+	135°C	192 HRS	48	0	SAKE9A019AQ

HIGH TEMP OP LIFE	1245	MAX15511GTL+	135°C	1000 HRS	45	0	S23YHA555Q1
HIGH TEMP OP LIFE	1245	MAX15511GTL+	135°C	1000 HRS	45	0	S23YHA555Q2
HIGH TEMP OP LIFE	1245	MAX15511GTL+	135°C	1000 HRS	45	0	S23YHA555Q3
HIGH TEMP OP LIFE	1247	MAX16963SATEC/V+	135°C	1000 HRS	80	0	SAHC0H004DA
HIGH TEMP OP LIFE	1247	MAX9688ETI+	135°C	1000 HRS	80	0	SAFH4A022Q1
HIGH TEMP OP LIFE	1247	MAX9688ETI+	135°C	1000 HRS	80	0	SAFH4A022Q2
HIGH TEMP OP LIFE	1247	MAX9688ETI+	135°C	1000 HRS	79	0	SAFH4022Q3
HIGH TEMP OP LIFE	1248	MAX17491GTA+T	135°C	1000 HRS	80	0	SZGZKA026SA
HIGH TEMP OP LIFE	1248	MAX17491GTA+T	135°C	1000 HRS	74	0	SZGZKA026SB
HIGH TEMP OP LIFE	1248	MAX17491GTA+T	135°C	1000 HRS	70	0	SZGZKA026SC
HIGH TEMP OP LIFE	1248	MAX17491GTA+T	135°C	1000 HRS	72	0	SZGZKA026SD
HIGH TEMP OP LIFE	1249	MAX5704AUB+	135°C	192 HRS	80	0	SAGG1Q001MQ
HIGH TEMP OP LIFE	1249	MAX44005EDT+T	135°C	1000 HRS	32	0	SAEL1Q001Q2
HIGH TEMP OP LIFE	1249	MAX44005EDT+T	135°C	1000 HRS	28	0	SAEL1Q001Q3
HIGH TEMP OP LIFE	1250	MAX14921ECS+	135°C	192 HRS	80	0	SAKK6Q002CQ
HIGH TEMP OP LIFE	1250	MAX2180AETG/V+	135°C	192 HRS	80	0	SAHU5Q001C#
HIGH TEMP OP LIFE	1252	MAX16936RATE/V+	135°C	1000 HRS	80	0	SAIW3Q002C#
HIGH TEMP OP LIFE	1301	MAX17502HATB+T	135°C	192 HRS	79	0	SAKP5A004FQ
HIGH TEMP OP LIFE	1301	MAX17502HATB+T	135°C	1000 HRS	79	0	SAKP5A004EQ
HIGH TEMP OP LIFE	1302	MAX16083XR322B+T	135°C	1000 HRS	80	0	SK1XEQ006A#
HIGH TEMP OP LIFE	1303	MAX16936RATEA/V+	135°C	1000 HRS	80	0	SAKZ3Q002CD
HIGH TEMP OP LIFE	1303	MAX16992ATCF/V+	135°C	1000 HRS	80	0	SAKB7Q002E*
HIGH TEMP OP LIFE	1304	MAX88920EFD+	135°C	1000 HRS	80	0	SAJO7A012W#
HIGH TEMP OP LIFE	1305	MAX16936RATE/V+CEK	135°C	1000 HRS	80	0	SAE9Q001FA#
HIGH TEMP OP LIFE	1305	MAX16993AGJC/VY+	135°C	1000 HRS	78	0	SAKP6Q001E
HIGH TEMP OP LIFE	1306	MAX17140AETL+	135°C	192 HRS	79	0	SAKE9A032BQ
HIGH TEMP OP LIFE	1306	MAX17140AETL+	135°C	192 HRS	79	0	SAKE9A032AQ
HIGH TEMP OP LIFE	1307	MAX14778ETP+	135°C	1000 HRS	80	0	SAKQ4007AA
HIGH TEMP OP LIFE	1307	MAX88920EFD+T	135°C	1000 HRS	80	0	SAJO7A022Q1
HIGH TEMP OP LIFE	1307	MAX88920EFD+T	135°C	500 HRS	80	0	SAJO7A022Q2
HIGH TEMP OP LIFE	1307	MAX88920EFD+T	135°C	1000 HRS	80	0	SAJO7A022Q3
HIGH TEMP OP LIFE	1308	MAX14659ETE+	135°C	192 HRS	80	0	SAKW7Q001DQ
HIGH TEMP OP LIFE	1310	MAX2181ETE+	135°C	192 HRS	80	0	SAKR6Q002AA
HIGH TEMP OP LIFE	1310	MAX2181ETE/V+	135°C	192 HRS	80	0	SAKR6Q003AA
HIGH TEMP OP LIFE	1311	MAX31740	125C, 5.5 VOLTS	192 HRS	80	0	XJ332800ABB
HIGH TEMP OP LIFE	1312	MAX31790	125C, 5.5 VOLTS	1000 HRS	80	0	ZX330900AC-NPI

HIGH TEMP OP LIFE	1313	MAX15091ETI+	135°C	1000 HRS	80	0	SAKJ2Q002Q9
HIGH TEMP OP LIFE	1313	MAX15070AAUT+	135°C	1000 HRS	79	0	SJ0ZDQ002Q1
HIGH TEMP OP LIFE	1313	MAX15070AAUT+	135°C	1000 HRS	80	0	SJ0ZDQ002Q2
HIGH TEMP OP LIFE	1313	MAX15070AAUT+	135°C	1000 HRS	80	0	SJ0ZDQ002Q3
HIGH TEMP OP LIFE	1314	MAX44005EDT+T	135°C	1000 HRS	80	0	SACG7Q002QA
HIGH TEMP OP LIFE	1314	MAX44005EDT+T	135°C	1000 HRS	78	1	SACG7Q002QB
HIGH TEMP OP LIFE	1314	MAX44005EDT+T	135°C	1000 HRS	78	1	SACG7Q002QC
HIGH TEMP OP LIFE	1314	MAX15091ETI+	135°C	500 HRS	80	0	SAKJ2Q002Q7
HIGH TEMP OP LIFE	1314	MAX15091ETI+	135°C	1000 HRS	78	1	SAKJ2Q002A7
HIGH TEMP OP LIFE	1314	MAX15091TI+	135°C	500 HRS	80	0	AKJ2Q002Q8
HIGH TEMP OP LIFE	1314	MAX15091ETI+	135°C	1000 HRS	80	1	SAKJ2Q002Q8
HIGH TEMP OP LIFE	1316	MAX2181AETE/V+	135°C	192 HRS	80	0	SAKR7Q002AA
HIGH TEMP OP LIFE	1317	MAX2180AETG+	135°C	1000 HRS	35	0	SAHU5Q001Q1
HIGH TEMP OP LIFE	1317	MAX2180AETG+	135°C	1000 HRS	35	0	SAHU5Q001Q2
HIGH TEMP OP LIFE	1317	MAX2180AETG+	135°C	1000 HRS	45	0	SAHU5Q001Q3
HIGH TEMP OP LIFE	1319	DS2484	125C, 5.25 VOLTS	1000 HRS	45	0	ZJ332803AD
HIGH TEMP OP LIFE	1319	MAX17501GATB+T	135°C	192 HRS	78	0	SAMP2U006DQ
HIGH TEMP OP LIFE	1319	MAX17501BATB+T	135°C	192 HRS	78	1	SAMP2U006EQ
HIGH TEMP OP LIFE	1319	MAX17501BATB+T	135°C	192 HRS	78	0	SAMP2U006GQ
HIGH TEMP OP LIFE	1320	MAX15062AATA+	135°C	228 HRS	80	0	SAMR2Q001BQ
HIGH TEMP OP LIFE	1320	MAX16993AGJC/VY+	135°C	192 HRS	79	0	SAKP6Q002BA
HIGH TEMP OP LIFE	1320	MAX16993AGJC/VY+	135°C	1000 HRS	79	0	SAKP6Q002B#
HIGH TEMP OP LIFE	1321	MAX16956AUBA/V+	135°C	192 HRS	79	0	SAMQ3Q001BQ
HIGH TEMP OP LIFE	1321	MAX16993AGJC/VY+	135°C	192 HRS	79	0	SAKP6Q003AA
HIGH TEMP OP LIFE	1321	MAX16993AGJC/VY+	135°C	1000 HRS	79	0	SAKP6Q003A#
HIGH TEMP OP LIFE	1322	MAX88920EFD+	135°C	1000 HRS	80	0	SAJO72167AC
HIGH TEMP OP LIFE	1323	MAX88920EFD+	135°C	192 HRS	80	1	SAJO7A143DC
HIGH TEMP OP LIFE	1323	MAX16962RATEA/V+	135°C	1000 HRS	80	0	SAGC3A006Q1
HIGH TEMP OP LIFE	1323	MAX16962RATEA/V+	135°C	1000 HRS	40	0	SAGC3A006Q2
HIGH TEMP OP LIFE	1323	MAX16962RATEA/V+	135°C	1000 HRS	40	0	SAGC3A006Q2
HIGH TEMP OP LIFE	1323	MAX16962RATEA/V+	135°C	1000 HRS	40	0	SAGC3A006Q3
HIGH TEMP OP LIFE	1323	MAX16962RATEA/V+	135°C	1000 HRS	40	0	SAGC3A006Q3
HIGH TEMP OP LIFE	1327	MAX88920EFD+	135°C	1000 HRS	80	0	SAJO7A215A#
HIGH TEMP OP LIFE	1328	MAX2181AETE/V+	135°C	192 HRS	80	0	SAKR7A004AC
HIGH TEMP OP LIFE	1330	MAX44285TAUA+	135°C	192 HRS	80	0	SANS0Q003BQ
HIGH TEMP OP LIFE	1330	MAX44285TAUA+	135°C	308 HRS	80	0	SANS0Q003AQ
HIGH TEMP OP LIFE	1331	MAX88920EFD+T	135°C	1000 HRS	80	0	SAJO7A137CC
HIGH TEMP OP LIFE	1331	MAX88920EFD+T	135°C	1000 HRS	80	0	SAJO7A137CD
HIGH TEMP OP LIFE	1331	MAX88920EFD+T	135°C	1000 HRS	80	0	SAJO7A137CE

Total:

7

**STORAGE LIFE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
STORAGE LIFE	1245	MAX15511GTL+	150°C	1000 HRS	79	0	S23YHA555Q1
STORAGE LIFE	1245	MAX15511GTL+	150°C	1000 HRS	80	0	S23YHA555Q2
STORAGE LIFE	1245	MAX15511GTL+	150°C	1000 HRS	80	0	S23YHA555Q4
STORAGE LIFE	1248	MAX17491GTA+T	150°C	1000 HRS	80	0	SZGZKA026SA
STORAGE LIFE	1248	MAX17491GTA+T	150°C	1000 HRS	80	0	SZGZKA026SB
STORAGE LIFE	1248	MAX17491GTA+T	150°C	1000 HRS	80	0	SZGZKA026SC
STORAGE LIFE	1248	MAX17491GTA+T	150°C	1000 HRS	80	0	SZGZKA026SD
STORAGE LIFE	1249	MAX44005EDT+T	150°C	1000 HRS	80	0	SAEL1Q001Q3
STORAGE LIFE	1302	MAX16083XR322B+T	150°C	1000 HRS	80	0	SK1XEQ006A
STORAGE LIFE	1304	MAX88920EFD+	150°C	1000 HRS	80	0	SAJO7A012W#
STORAGE LIFE	1305	MAX16936RATE/V+CEK	150°C	1000 HRS	50	0	SAENQ001FA#
STORAGE LIFE	1305	MAX16993GJC/VY+	150°C	1000 HRS	80	0	SAKP6Q001E
STORAGE LIFE	1307	MAX14778ETP+	150°C	1000 HRS	80	0	SAKQ4007AA
STORAGE LIFE	1307	MAX88920EFD+T	150°C	1000 HRS	80	0	SAJO7A022Q1
STORAGE LIFE	1307	MAX88920EFD+T	150°C	1000 HRS	80	0	SAJO7A022Q2
STORAGE LIFE	1307	MAX88920EFD+T	150°C	1000 HRS	80	0	SAJO7A022Q3
STORAGE LIFE	1313	MAX15091ETI+	150°C	1000 HRS	80	0	SAKJ2Q002Q9
STORAGE LIFE	1313	MAX15091ETI+	150°C	1000 HRS	80	0	SAKJ2Q002Q0
STORAGE LIFE	1313	MAX15070AAUT+	150°C	1000 HRS	80	0	SJ0ZDQ002Q1
STORAGE LIFE	1313	MAX15070AAUT+	150°C	1000 HRS	80	0	SJ0ZDQ002Q2
STORAGE LIFE	1313	MAX15070AAUT+	150°C	1000 HRS	80	0	SJ0ZDQ002Q3
STORAGE LIFE	1314	MAX15091ETI+	150°C	1000 HRS	80	0	SAKJ2Q002Q7
STORAGE LIFE	1314	MAX15091ETI+	150°C	1000 HRS	80	0	SAKJ2Q002Q8
STORAGE LIFE	1316	MAX2181AETE/V+	150°C	500 HRS	50	0	SAKR7Q002AA
STORAGE LIFE	1317	MAX2180AETG+	150°C	1000 HRS	80	0	SAHU5Q001Q1
STORAGE LIFE	1317	MAX2180AETG+	150°C	1000 HRS	80	0	SAHU5Q001Q2
STORAGE LIFE	1317	MAX2180AETG+	150°C	1000 HRS	80	0	SAHU5Q001Q3
STORAGE LIFE	1317	MAX2180AETG+	150°C	1000 HRS	80	0	SAHU5Q001Q4
STORAGE LIFE	1322	MAX88920EFD+	150°C	1000 HRS	80	0	SAJO72167AC
STORAGE LIFE	1323	MAX16962RATEA/V+	150°C	1000 HRS	80	0	SAGC3A006Q1
STORAGE LIFE	1323	MAX16962RATEA/V+	150°C	1000 HRS	80	0	SAGC3A006Q2
STORAGE LIFE	1323	MAX16962RATEA/V+	150°C	1000 HRS	80	0	SAGC3A006Q3
STORAGE LIFE	1323	MAX16962RATEA/V+	150°C	1000 HRS	80	0	SAGC3A006Q4

STORAGE LIFE	1328	MAX2181AETE/V+	150°C	1000	HRS	80	0	SAKR7A004AC
STORAGE LIFE	1328	MAX2181AETE/V+	150°C	1000	HRS	80	0	SAKR6A005AB
STORAGE LIFE	N/A	MAX15118EAI+	150°C	1000	HRS	77	0	SQ5ZDQ002#
<b>Total:</b>							<b>0</b>	

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**TEMPERATURE CYCLE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
TEMP CYCLE, 5' RAMP, 10' DWELL	1247	MAX44005EDT+T	-65C TO 150C	1000	CYS	77	0 SAEL1A004QC
TEMP CYCLE, 5' RAMP, 10' DWELL	1247	MAX9688ETI+	-65C TO 150C	1000	CYS	80	0 SAFH4A022Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	1247	MAX9688ETI+	-65C TO 150C	1000	CYS	78	1 SAFH4A022Q3
TEMP CYCLE, 5' RAMP, 10' DWELL	1248	MAX17491GTA+T	-65C TO 150C	1000	CYS	80	0 SZGZKA026SA
TEMP CYCLE, 5' RAMP, 10' DWELL	1248	MAX17491GTA+T	-65C TO 150C	1000	CYS	80	0 SZGZKA026SB
TEMP CYCLE, 5' RAMP, 10' DWELL	1248	MAX17491GTA+T	-65C TO 150C	1000	CYS	80	0 SZGZKA026SC
TEMP CYCLE, 5' RAMP, 10' DWELL	1249	MAX44005EDT+T	-65C TO 150C	1000	CYS	80	0 SAEL1Q001Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	1302	MAX16083XR322B+T	-65C TO 150C	500	CYS	80	0 SK1XEQ006A#
TEMP CYCLE, 5' RAMP, 10' DWELL	1303	MAX16936RATEA/V+	-65C TO 150C	500	CYS	80	0 SAKZ3Q002CD
TEMP CYCLE, 5' RAMP, 10' DWELL	1304	MAX88920EFD+	-65C TO 150C	200	CYS	80	0 SAJO7A012W#
TEMP CYCLE, 5' RAMP, 10' DWELL	1305	MAX16936RATE/V+CEK	-65C TO 150C	500	CYS	80	0 SAE9Q001FA#
TEMP CYCLE, 5' RAMP, 10' DWELL	1305	MAX16993GJC/VY+	-65C TO 150C	500	CYS	80	0 SAKP6Q001E
TEMP CYCLE, 5' RAMP, 10' DWELL	1307	MAX14778ETP+	-65C TO 150C	500	CYS	80	0 SAKQ4007AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1309	MAX88920EFD+T	-65C TO 150C	500	CYS	80	0 SAJO7A022Q4
TEMP CYCLE, 5' RAMP, 10' DWELL	1309	MAX88920EFD+T	-65C TO 150C	1000	CYS	80	0 SAJO7A022Q5
TEMP CYCLE, 5' RAMP, 10' DWELL	1313	MAX15091ETI+	-65C TO 150C	1000	CYS	77	0 SAKJ2Q002Q9
TEMP CYCLE, 5' RAMP, 10' DWELL	1313	MAX15091ETI+	-65C TO 150C	1000	CYS	77	0 SAKJ2Q002Q0
TEMP CYCLE, 5' RAMP, 10' DWELL	1313	MAX15070AAUT+	-65C TO 150C	1000	CYS	79	0 SJ0ZDQ002Q1
TEMP CYCLE, 5' RAMP, 10' DWELL	1313	MAX15070AAUT+	-65C TO 150C	1000	CYS	80	0 SJ0ZDQ002Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	1313	MAX15070AAUT+	-65C TO 150C	1000	CYS	80	0 SJ0ZDQ002Q3
TEMP CYCLE, 5' RAMP, 10' DWELL	1314	MAX15091ETI+	-65C TO 150C	500	CYS	80	0 SAKJ2Q002Q7

TEMP CYCLE, 5' RAMP, 10' DWELL	1314	MAX15091ETI+	-65C TO 150C	1000	CYS	77	0	SAKJ2Q002Q8
TEMP CYCLE, 5' RAMP, 10' DWELL	1316	MAX2181AETE/V+	-65C TO 150C	500	CYS	80	0	SAKR7Q002AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1317	MAX2180AETG+	-65C TO 150C	1000	CYS	80	0	SAHU5Q001Q1
TEMP CYCLE, 5' RAMP, 10' DWELL	1317	MAX2180AETG+	-65C TO 150C	1000	CYS	80	0	SAHU5Q001Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	1317	MAX2180AETG+	-65C TO 150C	1000	CYS	80	0	SAHU5Q001Q3
TEMP CYCLE, 5' RAMP, 10' DWELL	1317	MAX2180AETG+	-65C TO 150C	1000	CYS	80	0	SAHU5Q001Q4
TEMP CYCLE, 5' RAMP, 10' DWELL	1318	MAX16936RATEA/V+	-65C TO 150C	500	CYS	80	0	SAKZ3A004AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1318	MAX16936RATEA/V+	-65C TO 150C	500	CYS	80	0	SAKZ3A003DA
TEMP CYCLE, 5' RAMP, 10' DWELL	1320	MAX16993AGJC/VY+	-65C TO 150C	500	CYS	80	0	SAKP6Q002B#
TEMP CYCLE, 5' RAMP, 10' DWELL	1321	MAX16993AGJC/VY+	-65C TO 150C	500	CYS	80	0	SAKP6Q003AA
TEMP CYCLE, 5' RAMP, 10' DWELL	1322	MAX 88920EFD+	-65C TO 150C	500	CYS	80	1	SAJO72157AC
TEMP CYCLE, 5' RAMP, 10' DWELL	1323	MAX16962RATEA/V+	-65C TO 150C	1000	CYS	80	0	SAGC3A006Q1
TEMP CYCLE, 5' RAMP, 10' DWELL	1323	MAX16962RATEA/V+	-65C TO 150C	1000	CYS	80	0	SAGC3A006Q2
TEMP CYCLE, 5' RAMP, 10' DWELL	1323	MAX16962RATEA/V+	-65C TO 150C	1000	CYS	80	0	SAGC3A006Q3
TEMP CYCLE, 5' RAMP, 10' DWELL	1323	MAX16962RATEA/V+	-65C TO 150C	1000	CYS	80	0	SAGC3A006Q4
TEMP CYCLE, 5' RAMP, 10' DWELL	1328	MAX2181AETE/V+	-65C TO 150C	500	CYS	80	0	SAKR7A004AC
TEMP CYCLE, 5' RAMP, 10' DWELL	1328	MAX2181AETE/V+	-65C TO 150C	500	CYS	80	0	SAKR6A005AB
TEMP CYCLE, 5' RAMP, 10' DWELL	1330	MAX44285TAUA+	-65C TO 150C	1000	CYS	76	0	SANS0Q003A#
TEMP CYCLE, 5' RAMP, 10' DWELL	1330	MAX44285TAUA+	-65C TO 150C	1000	CYS	64	0	SANS0Q003AB
TEMP CYCLE, 5' RAMP, 10' DWELL	1331	MAX2181AETE/V+	-65C TO 150C	500	CYS	80	0	SAKR7A004AF
TEMP CYCLE, 15' RAMP, 15' DWELL	N/A	MAX15118EAI+	-40C TO +125C	1000	CYS	77	0	SQ5ZDQ002#
<b>Total:</b>							<b>2</b>	

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#### TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.	
BIASED MOISTURE	1217	MAX9695ETM+	130C, 85% R.H.	96	HRS	46	0	SJ9ZHA044Q1
BIASED MOISTURE	1245	MAX15511GTL+	130C, 85% R.H.	100	HRS	21	0	S23YHA555Q4

BIASED MOISTURE	1247	MAX9688ETI+	130C, 85% R.H.	100	HRS	34	0	SAFH4A022Q2
BIASED MOISTURE	1247	MAX9688ETI+	130C, 85% R.H.	100	HRS	33	0	SAFH4A022Q3
BIASED MOISTURE	1247	MAX9688ETI+	130C, 85% R.H.	100	HRS	34	0	SAFH4A022Q4
BIASED MOISTURE	1248	MAX17491GTA+T	130C, 85% R.H.	192	HRS	45	0	SZGZKA026SA
BIASED MOISTURE	1248	MAX17491GTA+T	130C, 85% R.H.	192	HRS	45	0	SZGZKA026SB
BIASED MOISTURE	1248	MAX17491GTA+T	130C, 85% R.H.	192	HRS	44	0	SZGZKA026SC
BIASED MOISTURE	1248	MAX17491GTA+T	130C, 85% R.H.	192	HRS	45	0	SZGZKA026SD
BIASED MOISTURE	1302	MAX16083XR322B+T	130C, 85% R.H.	100	HRS	80	0	SK1XEQ006A
BIASED MOISTURE	1303	MAX16936RATEA/V+	130C, 85% R.H.	100	HRS	77	0	SAKZ3Q002CD
BIASED MOISTURE	1305	MAX16936RATE/V+CEK	130C, 85% R.H.	100	HRS	77	0	SAE9Q001FA#
BIASED MOISTURE	1305	MAX16993GJC/VY+	130C, 85% R.H.	100	HRS	80	0	SAKP6Q001E
BIASED MOISTURE	1307	MAX14778ETP+	130C, 85% R.H.	100	HRS	47	0	SAKQ4007AA
BIASED MOISTURE	1310	MAX2181AETE/V+	130C, 85% R.H.	100	HRS	32	0	SAKR6Q003AA
BIASED MOISTURE	1313	MAX15070AAUT+	130C, 85% R.H.	100	HRS	80	0	SJ0ZDQ002Q2
BIASED MOISTURE	1313	MAX15070AAUT+	130C, 85% R.H.	100	HRS	80	0	SJ0ZDQ002Q3
BIASED MOISTURE	1314	MAX15091ETI+	130C, 85% R.H.	200	HRS	44	0	SAKJ2Q002Q7
BIASED MOISTURE	1314	MAX15091ETI+	130C, 85% R.H.	200	HRS	44	0	SAKJ2Q002Q8
BIASED MOISTURE	1314	MAX15091ETI+	130C, 85% R.H.	200	HRS	44	0	SAKJ2Q002Q9
BIASED MOISTURE	1314	MAX15091ETI+	130C, 85% R.H.	100	HRS	36	0	SAKJ2Q002Q0
BIASED MOISTURE	1316	MAX2181AETE/V+	130C, 85% R.H.	100	HRS	32	0	SAKR7Q002AA
BIASED MOISTURE	1317	MAX2180AETG+	130C, 85% R.H.	200	HRS	80	0	SAHU5Q001Q1
BIASED MOISTURE	1317	MAX2180AETG+	130C, 85% R.H.	200	HRS	80	0	SAHU5Q001Q2
BIASED MOISTURE	1317	MAX2180AETG+	130C, 85% R.H.	200	HRS	79	0	SAHU5Q001Q3
BIASED MOISTURE	1317	MAX2180AETG+	130C, 85% R.H.	100	HRS	80	0	SAHU5Q001Q4
BIASED MOISTURE	1318	MAX16936RATEA/V+	130C, 85% R.H.	100	HRS	77	0	SAKZ3A004AA



BIASED MOISTURE	1318	MAX16936RATEA/V+	130C, 85% R.H.	100	HRS	77	0	SAKZ3A003DA
BIASED MOISTURE	1320	MAX16993AGJC/VY+	130C, 85% R.H.	100	HRS	26	0	SAKP6Q002B#
BIASED MOISTURE	1321	MAX16993AGJC/VY+	130C, 85% R.H.	100	HRS	27	0	SAKP6Q003AA
BIASED MOISTURE	1323	MAX16962RATEA/V+	130C, 85% R.H.	192	HRS	45	0	SAGC3A006Q1
BIASED MOISTURE	1323	MAX16962RATEA/V+	130C, 85% R.H.	192	HRS	45	0	SAGC3A006Q1
BIASED MOISTURE	1323	MAX16962RATEA/V+	130C, 85% R.H.	192	HRS	45	0	SAGC3A006Q2
BIASED MOISTURE	1323	MAX16962RATEA/V+	130C, 85% R.H.	192	HRS	44	0	SAGC3A006Q2
BIASED MOISTURE	1323	MAX16962RATEA/V+	130C, 85% R.H.	192	HRS	45	0	SAGC3A006Q3
BIASED MOISTURE	1323	MAX16962RATEA/V+	130C, 85% R.H.	192	HRS	45	0	SAGC3A006Q3
BIASED MOISTURE	1323	MAX16962RATEA/V+	130C, 85% R.H.	192	HRS	45	0	SAGC3A006Q4
BIASED MOISTURE	1328	MAX2181AETE/V+	130C, 85% R.H.	100	HRS	32	0	SAKR7A004AC
BIASED MOISTURE	1328	MAX2181ETE/V+	130C, 85% R.H.	100	HRS	32	0	SAKR6A005AB
BIASED MOISTURE	1330	MAX44285TAUA+	130C, 85% R.H.	100	HRS	77	0	SANS0Q003A#
BIASED MOISTURE	1330	MAX44285TAUA+	130C, 85% R.H.	100	HRS	30	0	SANS0Q003AB
BIASED MOISTURE	1331	MAX2181AETE/V+	130C, 85% R.H.	100	HRS	48	0	SAKR7A004AF
BIASED MOISTURE	1334	MAX9695AETM+	130C, 85% R.H.	96	HRS	29	0	S2RZCA016BX
BIASED MOISTURE	1334	MAX9695AETM+	130C, 85% R.H.	96	HRS	29	0	S2RZCA016CX
BIASED MOISTURE	1336	MAX17511GTL+	130C, 85% R.H.	192	HRS	40	0	SM0YGA175AA
BIASED MOISTURE	1336	MAX175511GTL+	130C, 85% R.H.	96	HRS	40	0	SM0YGA175AB
BIASED MOISTURE	1336	MAX17511GTL+	130C, 85% R.H.	192	HRS	40	0	SM0YGA175AB
BIASED MOISTURE	1336	MAX17511GTL+	130C, 85% R.H.	192	HRS	40	0	SM0YGA175AC
BIASED MOISTURE	1337	MAX15511GTL+	130C, 85% R.H.	192	HRS	40	0	S23YHA655BA
BIASED MOISTURE	1337	MAX15511GTL+	130C, 85% R.H.	192	HRS	39	1	S23YHA655BB
BIASED MOISTURE	1337	MAX15511GTL+	130C, 85% R.H.	192	HRS	40	0	S23YHA655BC
<b>Total:</b>							<b>1</b>	

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**UNBIASED MOISTURE RESISTANCE**

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	LOT NO.
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MOISTURE SOAK	1245	MAX15511GTL+	130C, 85% R.H.	500	HRS	78	0	S23YHA555Q3
MOISTURE SOAK	1245	MAX15511GTL+	130C, 85% R.H.	500	HRS	72	0	S23YHA555Q2
MOISTURE SOAK	1245	MAX15511GTL+	130C, 85% R.H.	500	HRS	80	0	S23YHA555Q4
MOISTURE SOAK	1247	MAX44005EDT+T	85 C/85% R.H.	1000	HRS	78	0	SAEL1A04QC
MOISTURE SOAK	1247	MAX44005EDT+T	85 C/85% R.H.	1000	HRS	80	0	SAEL1A004QB
MOISTURE SOAK	1247	MAX44005EDT+T	85 C/85% R.H.	1000	HRS	79	0	SAEL1A004QC
MOISTURE SOAK	1247	MAX9688ETI+	130C, 85% R.H.	500	HRS	80	0	SAFH4A022Q1
MOISTURE SOAK	1247	MAX9688ETI+	130C, 85% R.H.	500	HRS	80	0	SAFH4A022Q2
MOISTURE SOAK	1247	MAX9688ETI+	130C, 85% R.H.	500	HRS	80	0	SAFH4A022Q3
MOISTURE SOAK	1247	MAX9688ETI+	130C, 85% R.H.	500	HRS	80	0	SAFH4A022Q4
MOISTURE SOAK	1248	MAX17491GTA+T	130C, 85% R.H.	500	HRS	80	0	SZGZKA026SC
MOISTURE SOAK	1248	MAX17491GTA+T	130C, 85% R.H.	500	HRS	80	0	SZGZKA026SD
MOISTURE SOAK	1302	MAX16083XR322B+T	130C, 85% R.H.	100	HRS	80	0	SK1XEQ006A
MOISTURE SOAK	1304	MAX88920EFD+	85 C/85% R.H.	1000	HRS	80	0	SAJO7A012W#
MOISTURE SOAK	1305	MAX16936RATE/V+CEK	130C, 85% R.H.	100	HRS	80	0	SAE9Q001FA#
MOISTURE SOAK	1305	MAX16993GJC/VY+	130C, 85% R.H.	100	HRS	80	0	SAKP6Q001E
MOISTURE SOAK	1307	MAX88920EFD+T	85 C/85% R.H.	1000	HRS	80	0	SAJO7A022Q1
MOISTURE SOAK	1307	MAX88920EFD+T	85 C/85% R.H.	1000	HRS	80	0	SAJO7A022Q2
MOISTURE SOAK	1307	MAX88920EFD+T	85 C/85% R.H.	1000	HRS	80	0	SAJO7A022Q3
MOISTURE SOAK	1314	MAX15091ETI+	130C, 85% R.H.	100	HRS	80	0	SAKJ2Q002Q7
MOISTURE SOAK	1314	MAX15091ETI+	130C, 85% R.H.	500	HRS	80	0	SAJ2Q002Q7
MOISTURE SOAK	1314	MAX15091ETI+	130C, 85% R.H.	500	HRS	80	0	SAKJ2Q002Q8
MOISTURE SOAK	1314	MAX15091ETI+	130C, 85% R.H.	500	HRS	80	0	SAKJ2Q002Q9
MOISTURE SOAK	1314	MAX15091ETI+	130C, 85% R.H.	500	HRS	80	0	SAKJ2Q002Q0
MOISTURE SOAK	1316	MAX2181AETE/V+	130C, 85% R.H.	100	HRS	80	0	SAKR7Q002AA
MOISTURE SOAK	1317	MAX2180AETG+	130C, 85% R.H.	500	HRS	80	0	SAHU5Q001Q1
MOISTURE SOAK	1317	MAX2180AETG+	130C, 85% R.H.	500	HRS	80	0	SAHU5Q001Q3
MOISTURE SOAK	1317	MAX2180AETG+	130C, 85% R.H.	500	HRS	80	0	SAHU5Q001Q4

MOISTURE SOAK	1318	MAX16936RATEA/V+	130C, 85% R.H.	100	HRS	80	0	SAKZ3A004AA
MOISTURE SOAK	1318	MAX16936RATEA/V+	130C, 85% R.H.	100	HRS	80	0	SAKZ3A003DA
MOISTURE SOAK	1320	MAX16993AGJC/VY+	130C, 85% R.H.	100	HRS	80	0	SAKP6Q002B#
MOISTURE SOAK	1321	MAX16993AGJC/VY+	130C, 85% R.H.	100	HRS	80	0	SAKP6Q003AA
MOISTURE SOAK	1322	MAX88920EFD+	85 C/85% R.H.	1000	HRS	80	0	SAJO72167AC
MOISTURE SOAK	1323	MAX16962RATEA/V+	130C, 85% R.H.	500	HRS	80	0	SAGC3A006Q1
MOISTURE SOAK	1323	MAX16962RATEA/V+	130C, 85% R.H.	500	HRS	79	0	SAGC3A006Q2
MOISTURE SOAK	1323	MAX16962RATEA/V+	130C, 85% R.H.	500	HRS	80	0	SAGC3A006Q3
MOISTURE SOAK	1323	MAX16962RATEA/V+	130C, 85% R.H.	500	HRS	80	0	SAGC3A006Q4
MOISTURE SOAK	1328	MAX2181AETE/V+	130C, 85% R.H.	100	HRS	80	0	SAKR7A004AC
MOISTURE SOAK	1328	MAX2181AETE/V+	130C, 85% R.H.	100	HRS	80	0	SAKR6A005AB
MOISTURE SOAK	1331	MAX2181AETE/V+	130C, 85% R.H.	100	HRS	80	0	SAKR7A004AF
MOISTURE SOAK	1331	MAX88920EFD+T	130C, 85% R.H.	24	HRS	80	0	SAJO7137CC
MOISTURE SOAK	1331	MAX88920EFD+T	130C, 85% R.H.	24	HRS	80	0	SAJO7137CD
MOISTURE SOAK	1331	MAX88920EFD+T	130C, 85% R.H.	24	HRS	80	0	SAJO7137CE
MOISTURE SOAK	N/A	MAX15118EAI+	130C, 85% R.H.	100	HRS	77	1	SQ5ZDQ002#

**Total:** 1

**FAILURE RATE: MTTF (YRS): 70640 QUANTITY: 6171 FAILS: 7 FITS: 1.6**