

1/24/2019



RELIABILITY MONITOR REPORT
FOR

DFN Package

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 Package Reliability Monitor. The specific assemblies included in this package monitor are:

ASSY SITE	PINS	PACKAGE		
ASE Chung-Li	6	TDFN (Pb-Free)	ASE Chung-Li	8 TDFN (Pb-Free)
ASE Chung-Li	10	TDFN (Pb-Free)	ASE Chung-Li	12 TDFN (Pb-Free)
ASE Chung-Li	14	TDFN (Pb-Free)	ASE Chung-Li	15 TDFN (Pb-Free)
ASE Chung-Li	48	TDFN (Pb-Free)	ASE Chung-Li	56 TDFN (Pb-Free)
ASE Chung-Li	63	TDFN (Pb-Free)	ASE Chung-Li	68 TDFN (Pb-Free)
ASE Chung-Li	82	TDFN (Pb-Free)	ASE Chung-Li	83 TDFN (Pb-Free)
ASE Chung-Li	10	TDFN w/Cu-Wire (Pb-Free)	ASE Chung-Li	12 TDFN w/Cu-Wire (Pb-Free)
ASE Chung-Li	14	TDFN w/Cu-Wire (Pb-Free)	ASE Chung-Li	20 TDFN w/Cu-Wire (Pb-Free)
ASE Chung-Li	24	TDFN w/Cu-Wire (Pb-Free)	ASE Chung-Li	28 TDFN w/Cu-Wire (Pb-Free)
ASE Chung-Li	32	TDFN w/Cu-Wire (Pb-Free)	ASE Chung-Li	123 TDFN w/Cu-Wire (Pb-Free)
ASE Chung-Li	62	uDFN (Pb-Free)	JCAP	63 TDFN w/Cu-Wire (Pb-Free)
UTAC DG	8	TDFN (Pb-Free)	UTAC DG	28 TDFN (Pb-Free)
UTAC DG	40	TDFN (Pb-Free)	UTAC DG	83 TDFN (Pb-Free)
UTAC DG	56	TDFN w/Cu-Wire (Pb-Free)	UTL (NSEB) UTAC	24 TDFN (Pb-Free)
UTL (NSEB) UTAC	82	TDFN (Pb-Free)	UTL (NSEB) UTAC	6 TDFN Hybrid (Pb-Free)
UTL (NSEB) UTAC	63	TDFN Hybrid (Pb-Free)	UTL (NSEB) UTAC	10 TDFN w/Cu-Wire (Pb-Free)
UTL (NSEB) UTAC	12	TDFN w/Cu-Wire (Pb-Free)	UTL (NSEB) UTAC	32 TDFN w/Cu-Wire (Pb-Free)
UTL (NSEB) UTAC	123	TDFN w/Cu-Wire (Pb-Free)	UTL (NSEB) UTAC	6 uDFN (Pb-Free)
UTL (NSEB) UTAC	8	uDFN (Pb-Free)	UTL (NSEB) UTAC	10 uDFN (Pb-Free)

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 527607 FITS: 0.2

The parameters used to calculate this failure rate are as follows:

Cf: 60% Ea: 0.7 Tu: 25 °C

The reliability data follows. At the start of this data is a description of the assembly vehicle used to generate this reliability data. The next section is the detailed reliability data for each stress. The reliability data section includes the latest data available. This report covers data between 10/1/2018 and 12/31/2018.

Assembly Information:

Package Type: TDFN (Pb-Free)
 Date Code Range: 1734 to 1832

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1740	MAX9814ETD+	135°C	1000 HRS	46	0	
HIGH TEMP OP LIFE	1740	MAX9814ETD+	135°C	500 HRS	48	0	
HIGH TEMP OP LIFE	1740	MAX9814ETD+	135°C	1000 HRS	32	0	
HIGH TEMP OP LIFE	1741	MAX15006AATT+	135°C	1000 HRS	47	0	
HIGH TEMP OP LIFE	1741	MAX15006AATT+	135°C	1000 HRS	33	0	
HIGH TEMP OP LIFE	1744	MAX8556ETE+	135°C	1000 HRS	80	0	
HIGH TEMP OP LIFE	1745	MAX98306ETD+T	135°C	1000 HRS	45	0	
HIGH TEMP OP LIFE	1745	MAX5054AATA/V+	135°C	1000 HRS	31	0	

HIGH TEMP OP LIFE	1746	MAX98306ETD+T	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1747	MAX9296AGTM/V+	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1747	MAX9296AGTM/V+	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1747	MAX9296AGTM/V+	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1749	MAX14808ETK+	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1752	MAX9280BGTN/V+	135°C	500	HRS	80	0
HIGH TEMP OP LIFE	1802	MAX12000ETB+	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1803	MAX98306ETD+T	125°C	1000	HRS	79	0
HIGH TEMP OP LIFE	1804	MAX9275DGTN/V+	135°C	1000	HRS	79	0
HIGH TEMP OP LIFE	1804	MAX5961ETM+	135°C	1000	HRS	48	0
HIGH TEMP OP LIFE	1805	MAX9282BGTM/V+	135°C	192	HRS	80	0
HIGH TEMP OP LIFE	1805	MAX98306ETD+T	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1805	MAX5054AATA/V+T	125°C	1000	HRS	48	0
HIGH TEMP OP LIFE	1805	MAX5054AATA/V+T	125°C	1000	HRS	29	0
HIGH TEMP OP LIFE	1806	MAX9814ETD+	135°C	1000	HRS	44	0
HIGH TEMP OP LIFE	1806	MAX5423ETA+	135°C	1000	HRS	48	0
HIGH TEMP OP LIFE	1806	MAX2150ETI+	135°C	1000	HRS	47	0
HIGH TEMP OP LIFE	1806	MAX8902AATA+T	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1807	MAX3738ETG+	135°C	500	HRS	80	0
HIGH TEMP OP LIFE	1808	MAX8904ETN+GC5	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1809	MAX20058ATCA/VY +	135°C	192	HRS	80	0
HIGH TEMP OP LIFE	1809	MAX2172ETL/V+	135°C	1000	HRS	80	0
HIGH TEMP OP LIFE	1828	MAX9979KCTK+	125°C	1000	HRS	78	0
HIGH TEMP OP LIFE	1832	MAX5170BEEE+	125°C	1000	HRS	80	0
Total:						0	0

PACKAGE TESTS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
CONVECTION REFLOW	1740	MAX9814ETD+	260C +0/-5C	3	PASS	319	0
CONVECTION REFLOW	1741	MAX15006AATT+	260C +0/-5C	3	PASS	320	0
CONVECTION REFLOW	1745	MAX98306ETD+T	260C +0/-5C	3	PASS	320	0
CONVECTION REFLOW	1746	MAX96756GTN/V+	260C +0/-5C		PASS	110	0
CONVECTION REFLOW	1746	MAX96756GTN/V+	260C +0/-5C		PASS	110	0
CONVECTION REFLOW	1746	MAX96756GTN/V+	260C +0/-5C		PASS	109	0
CONVECTION REFLOW	1746	MAX96756GTN/V+	260C +0/-5C		PASS	240	0
CONVECTION REFLOW	1804	MAX5961ETM+	260C +0/-5C		PASS	80	0
CONVECTION REFLOW	1804	MAX1257BETM+	260C +0/-5C	3	PASS	320	0
CONVECTION REFLOW	1804	MAX14908ETK+	260C +0/-5C		PASS	320	0

CONVECTION REFLOW	1812	MAX17502GATB+T	260C +/-5C	PASS	500	0
				Total:		0

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE		MAX8904ETN+GC5	150°C	1000 HRS	80	0	
STORAGE LIFE		MAX98306ETD+T	150°C	1000 HRS	80	0	
STORAGE LIFE	1734	MAX14808ETK+	150°C	500 HRS	80	0	
STORAGE LIFE	1740	MAX9814ETD+	150°C	1000 HRS	80	0	
STORAGE LIFE	1741	MAX15006AATT+	150°C	1000 HRS	80	0	
STORAGE LIFE	1744	MAX8556ETE+	150°C	1000 HRS	80	0	
STORAGE LIFE	1745	MAX98306ETD+T	150°C	1000 HRS	80	0	
STORAGE LIFE	1746	MAX96756GTN/V+	150°C	1000 HRS	80	0	
STORAGE LIFE	1746	MAX96756GTN/V+	150°C	1000 HRS	80	0	
STORAGE LIFE	1746	MAX96756GTN/V+	150°C	1000 HRS	80	0	
STORAGE LIFE	1746	MAX98306ETD+T	150°C	1000 HRS	80	0	
STORAGE LIFE	1747	MAX9296AGTM/V+	150°C	1000 HRS	80	0	
STORAGE LIFE	1747	MAX9296AGTM/V+	150°C	1000 HRS	80	0	
STORAGE LIFE	1750	MAX9291GTN/VY+	150°C	1000 HRS	30	0	
STORAGE LIFE	1802	MAX12000ETB+	150°C	1000 HRS	80	0	
STORAGE LIFE	1804	MAX5961ETM+	150°C	500 HRS	80	0	
STORAGE LIFE	1804	MAX14908ETK+	150°C	1000 HRS	80	0	
STORAGE LIFE	1805	MAX98306ETD+T	150°C	1000 HRS	80	0	
STORAGE LIFE	1805	MAX5054AATA/V+T	150°C	500 HRS	80	0	
STORAGE LIFE	1806	MAX9814ETD+	150°C	1000 HRS	78	0	
STORAGE LIFE	1806	MAX9979KCTK+	150°C	1000 HRS	80	0	
STORAGE LIFE	1806	MAX5423ETA+	150°C	1000 HRS	53	0	
STORAGE LIFE	1806	MAX5423ETA+	150°C	1000 HRS	30	0	
STORAGE LIFE	1806	MAX8902AATA+T	150°C	1000 HRS	80	0	
STORAGE LIFE	1807	MAX3738ETG+	150°C	500 HRS	80	0	
STORAGE LIFE	1809	MAX2172ETL/V+	150°C	1000 HRS	80	0	
STORAGE LIFE	1812	MAX17502GATB+T	150°C	500 HRS	80	0	
STORAGE LIFE	1828	MAX9979KCTK+	150°C	1000 HRS	78	0	
				Total:		0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL		MAX8904ETN+GC5	-65C TO +150C (Condition C)	1000 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1734	MAX14808ETK+	-65C TO +150C (Condition C)	1000 CYS	80	0	

TEMP CYCLE, 5' RAMP, 10' DWELL	1740	MAX9814ETD+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1741	MAX15006AATT+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1744	MAX8556ETE+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1745	MAX98306ETD+T	-65C TO +150C (Condition C)	500 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1746	MAX96756GTN/V+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1746	MAX96756GTN/V+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1746	MAX96756GTN/V+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1746	MAX98306ETD+T	-65C TO +150C (Condition C)	500 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1747	MAX9296AGTM/V+	-65C TO +150C (Condition C)	500 CYS	90	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1747	MAX9296AGTM/V+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1747	MAX9296AGTM/V+	-65C TO +150C (Condition C)	1000 CYS	79	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1802	MAX12000ETB+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1803	MAX98306ETD+T	-65C TO +150C (Condition C)	1000 CYS	79	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1804	MAX5961ETM+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1804	MAX1257BETM+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1804	MAX14908ETK+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1805	MAX98306ETD+T	-65C TO +150C (Condition C)	1000 CYS	74	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1805	MAX5054AATA/V+T	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1806	MAX9814ETD+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1806	MAX9979KCTK+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1806	MAX5423ETA+	-65C TO +150C (Condition C)	1000 CYS	78	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1806	MAX2150ETI+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1806	MAX8902AATA+T	-65C TO +150C (Condition C)	1000 CYS	78	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1807	MAX3738ETG+	-65C TO +150C (Condition C)	500 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1809	MAX2172ETL/V+	-65C TO +150C (Condition C)	1000 CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1812	MAX17502GATB+T	-65C TO +150C (Condition C)	500 CYS	110	0

TEMP CYCLE, 5' RAMP, 10' DWELL	1828	MAX9979KCTK+	-65C TO +150C (Condition C)	1000	CYS	80	0
TEMP CYCLE, 5' RAMP, 10' DWELL	1832	MAX5170BEEEE+	-65C TO +150C (Condition C)	1000	CYS	80	0
Total:						0	0

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE	1734	MAX14808ETK+	85 C/85% R.H.	96	HRS	80	0
BIASED MOISTURE	1740	MAX9814ETD+	85 C/85% R.H.	96	HRS	80	0
BIASED MOISTURE	1741	MAX15006AATT+	85 C/85% R.H.	96	HRS	80	0
BIASED MOISTURE	1744	MAX8556ETE+	85 C/85% R.H.	96	HRS	80	0
BIASED MOISTURE	1745	MAX98306ETD+T	85 C/85% R.H.	96	HRS	80	0
BIASED MOISTURE	1746	MAX98306ETD+T	85 C/85% R.H.	96	HRS	80	0
BIASED MOISTURE	1747	MAX9296AGTM/V+	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1747	MAX9296AGTM/V+	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1747	MAX9296AGTM/V+	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1802	MAX12000ETB+	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1804	MAX5961ETM+	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1804	MAX1257BETM+	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1804	MAX14908ETK+	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1805	MAX98306ETD+T	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1806	MAX9814ETD+	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1806	MAX9979KCTK+	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1806	MAX2150ETI+	130C, 85% R.H.	96	HRS	39	0
BIASED MOISTURE	1806	MAX2150ETI+	130C, 85% R.H.	96	HRS	39	0
BIASED MOISTURE	1806	MAX8902AATA+T	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1809	MAX2172ETL/V+	130C, 85% R.H.	96	HRS	58	0
BIASED MOISTURE	1809	MAX2172ETL/V+	130C, 85% R.H.	96	HRS	22	0
BIASED MOISTURE	1812	MAX17502GATB+T	130C, 85% R.H.	96	HRS	58	0
BIASED MOISTURE	1821	MAX16047ETN+	130C, 85% R.H.	96	HRS	40	0
BIASED MOISTURE	1828	MAX9979KCTK+	130C, 85% R.H.	96	HRS	80	0
BIASED MOISTURE	1832	MAX5170BEEEE+	130C, 85% R.H.	96	HRS	80	0
Total:						0	0

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
MOISTURE SOAK	1746	MAX96756GTN/V+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1746	MAX96756C61	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1747	MAX9296AGTM/V+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1747	MAX9296AGTM/V+	130C, 85% R.H.	96	HRS	80	0

MOISTURE SOAK	1747	MAX9296AGTM/V+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1756	MAX96756GTN/V+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1812	MAX17502GATB+T	130C, 85% R.H.	96	HRS	80	0
Total:							0

Assembly Information:

Package Type: TDFN Hybrid (Pb-Free)
Date Code Range: 1827 to 1827

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1827	90-2884A+Q0U	125°C	1000 HRS	80	0	
HIGH TEMP OP LIFE	1827	90-2884A+Q0U	125°C	1000 HRS	80	0	
HIGH TEMP OP LIFE	1827	90-2884A+Q0U	125°C	500 HRS	79	0	
Total:							0

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1827	90-2884A+Q0U	150°C	1000 HRS	80	0	
STORAGE LIFE	1827	90-2884A+Q0U	150°C	1000 HRS	80	0	
STORAGE LIFE	1827	90-2884A+Q0U	150°C	1000 HRS	79	0	
Total:							0

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	1827	90-2884A+Q0U	-65C TO +150C (Condition C)	1000 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1827	90-2884A+Q0U	-65C TO +150C (Condition C)	1000 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1827	90-2884A+Q0U	-65C TO +150C (Condition C)	1000 CYS	80	0	
Total:							0

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE	1827	90-2884A+Q0U	130C, 85% R.H.	96 HRS	80	0	
BIASED MOISTURE	1827	90-2884A+Q0U	130C, 85% R.H.	96 HRS	80	0	
BIASED MOISTURE	1827	90-2884A+Q0U	130C, 85% R.H.	96 HRS	80	0	
Total:							0

Assembly Information:

Package Type: TDFN w/Cu-Wire (Pb-Free)
Date Code Range: 1715 to 1822

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
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STORAGE LIFE		MAX17761XATC+	150°C	1000 HRS	80	0
STORAGE LIFE		MAX20471ATCA/V+	150°C	1000 HRS	79	0
STORAGE LIFE		MAX20471ATCA/V+	150°C	1000 HRS	80	0
STORAGE LIFE		MAX20471ATCA/V+	150°C	1000 HRS	79	0
STORAGE LIFE	1802	87-28C36+Q00	150°C	1000 HRS	78	0
STORAGE LIFE	1802	87-28C36+Q00	150°C	500 HRS	80	0
STORAGE LIFE	1803	MAX16047ETN+	150°C	1000 HRS	80	0
STORAGE LIFE	1812	MAX14778ETP+	150°C	1000 HRS	80	0
Total:						0

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL		MAX20019ATBA/VY+ T	-65C TO +150C (Condition C)	1000 CYS	70	0	
TEMP CYCLE, 5' RAMP, 10' DWELL		MAX17761XATC+	-65C TO +150C (Condition C)	200 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL		MAX20471ATCA/V+	-65C TO +150C (Condition C)	500 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL		MAX20471ATCA/V+	-65C TO +150C (Condition C)	500 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1803	MAX16047ETN+	-65C TO +150C (Condition C)	1000 CYS	80	0	
TEMP CYCLE, 5' RAMP, 10' DWELL	1812	MAX14778ETP+	-65C TO +150C (Condition C)	1000 CYS	80	0	
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE		MAX20019ATBA/VY+ T	130C, 85% R.H.	96 HRS	77	0	
BIASED MOISTURE		MAX20019ATBA/VY+ T	130C, 85% R.H.	96 HRS	79	0	
BIASED MOISTURE		MAX20019ATBA/VY+ T	130C, 85% R.H.	96 HRS	79	0	
BIASED MOISTURE		MAX20019ATBA/VY+ T	130C, 85% R.H.	96 HRS	78	0	
BIASED MOISTURE		MAX20019ATBA/VY+ T	130C, 85% R.H.	96 HRS	79	0	
BIASED MOISTURE		MAX20471ATCA/V+	130C, 85% R.H.	96 HRS	79	0	
BIASED MOISTURE	1812	MAX14778ETP+	130C, 85% R.H.	96 HRS	25	0	
BIASED MOISTURE	1812	MAX14778ETP+	130C, 85% R.H.	96 HRS	26	0	
BIASED MOISTURE	1812	MAX14778ETP+	130C, 85% R.H.	96 HRS	25	0	
BIASED MOISTURE	1812	MAX14778ETP+	130C, 85% R.H.	96 HRS	10	0	
Total:						0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
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MOISTURE SOAK		MAX17761XATC+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK		MAX20471ATCA/V+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK		MAX20471ATCA/V+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK		MAX20471ATCA/V+	130C, 85% R.H.	96	HRS	80	0
MOISTURE SOAK	1812	MAX14778ETP+	130C, 85% R.H.	96	HRS	80	0
						Total:	0

Assembly Information:

Package Type: uDFN (Pb-Free)
Date Code Range: 1741 to 1824

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	1741	MAX2659ELT+	135°C	1000 HRS	77	0	
HIGH TEMP OP LIFE	1741	MAX2659ELT+	135°C	1000 HRS	80	0	
HIGH TEMP OP LIFE	1744	MAX9938FELT+	135°C	500 HRS	80	0	
HIGH TEMP OP LIFE	1820	MAX2659ELT+T	125°C	1000 HRS	78	0	
						Total:	0

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	1820	MAX2659ELT+T	150°C	500 HRS	80	0	
STORAGE LIFE	1824	MAX5128ELA+T	150°C	1000 HRS	80	0	
						Total:	0

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE, 5' RAMP, 10' DWELL	1824	MAX5128ELA+T	-65C TO +150C (Condition C)	500 CYS	80	0	
						Total:	0

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE	1824	MAX5128ELA+T	130C, 85% R.H.	96 HRS	79	0	
						Total:	0

FAILURE RATE: MTTF (YRS): 527607 FITS: 0.2