

**RELIABILITY MONITOR REPORT
FOR**

0.6 μm Process

Dallas Semiconductor

**4401 South Beltwood Parkway
Dallas, TX 75244-3292**

**This Report was prepared by
Dallas Semiconductor Reliability Engineering**

Summary:

The data in the tables that follow was generated as the result of an on-going Process Reliability Monitor. The products covered by this process monitor are:

DS1002	DS1050	DS1052	DS1077	DS1077L
DS1085	DS1085L	DS1086	DS1086H	DS1086L
DS1087L	DS1094L	DS1099	DS1100	DS1100L
DS1102L	DS1110	DS1110L	DS1135	DS1135L
DS12885	DS12R885	DS12R885-5	DS1311	DS1318
DS1337	DS1337C	DS1338	DS1338-3	DS1338-33
DS1338C	DS1339	DS1339C	DS1339U-3	DS1339U-33
DS1340	DS1340C	DS1371	DS1374	DS1374-3
DS1374-33	DS1374C	DS1375	DS1390	DS1391
DS1392	DS1393	DS1482	DS1500	DS1501
DS1543	DS1553	DS1558	DS1615	DS1616
DS1620	DS1621	DS1626	DS1631	DS1631A
DS1643	DS1672	DS1678	DS1679	DS1682
DS1720	DS1721	DS1722	DS1726	DS1731
DS1743	DS1748	DS1775	DS1805	DS1809
DS1820B	DS1822	DS1830	DS1831	DS1845
DS1846	DS1847	DS1848	DS1849	DS1851
DS1854	DS1855	DS1858	DS1870	DS1921
DS1921G	DS1921H	DS1961	DS2117M	DS2118M
DS2119M	DS2120	DS2125	DS2127	DS2129
DS21349	DS21352	DS21354	DS21448	DS2148
DS2149	DS21552	DS21554	DS21600	DS21602
DS21604	DS21610	DS2196	DS2197	DS21Q43
DS21Q50	DS21Q58	DS21Q59	DS2401	DS2405
DS2408	DS2409	DS2411	DS2415	DS2417
DS2421	DS2422	DS2432	DS2433	DS2436
DS2438	DS2450	DS2470	DS2490	DS2501
DS2502	DS2503	DS2505	DS2702	DS2720
DS2740	DS2751	DS2760	DS2761	DS2762
DS2763	DS2770	DS2801	DS2890	DS3903
DS3904	DS3905	DS3930	DS4000	DS4301
DS4510	DS5001	DS5002	DS5240	DS5250
DS7864B	DS7864D	DS80C310	DS80C320	DS80C323
DS80CH11	DS87C520	DS87C550		

The calculated failure rate for devices using this process is:

FAILURE RATE: MTTF (YRS): 460811 FITS: 0.2

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

Cf: 60% Ea: 0.7 B: 0 Tu: 25 °C Vu: 5.5 Volts

The reliability data follows. At the start of this data is the process information. 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 07/01/2004 and 06/30/2005 .

Device Information:

Process: 0.6 µm Process
Interconnect: Aluminum / 1% Silicon / 0.5% Copper
Gate Oxide Thickness: 150 Å

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0421	DS1390	125C, 5.5 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0422	DS1393	125C, 5.5 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0424	DS1391	125C, 5.5 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0427	DS2422	125C, 5.5V (PSA) & 3.0V (PSB)	1000 HRS	77	0	
HIGH TEMP OP LIFE	0427	DS1553	125C, 5.5 VOLTS	1000 HRS	77	0	
VISUAL INSPECTION			WHISKERS < 50uM		3	0	
HIGH TEMP OP LIFE	0428	DS2401	125C, 6.0 VOLTS	1000 HRS	80	0	
HIGH TEMP OP LIFE	0428	DS21352	125C, 3.3 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0429	DS1501	125C, 5.5 VOLTS	1000 HRS	77	0	
VISUAL INSPECTION			WHISKERS < 50uM		3	0	
HIGH TEMP OP LIFE	0429	DS1501	125C, 5.5 VOLTS	1000 HRS	77	0	
VISUAL INSPECTION			WHISKERS < 50uM		3	0	
HIGH TEMP OP LIFE	0430	DS1849	125C, 5.5 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0432	DS12885	125C, 5.0 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0432	DS12885	125C, 5.0 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0432	DS1501	125C, 5.5 VOLTS	1000 HRS	77	0	
VISUAL INSPECTION			WHISKERS < 50uM		77	0	
HIGH TEMP OP LIFE	0433	DS1553	125C, 5.5 VOLTS	1000 HRS	45	0	
VISUAL INSPECTION			WHISKERS < 50uM		3	0	
HIGH TEMP OP LIFE	0433	DS80C320	125C, 5.5 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0433	DS1501	125C, 5.5 VOLTS	1000 HRS	77	0	
VISUAL INSPECTION			WHISKERS < 50uM		76	0	
HIGH TEMP OP LIFE	0434	DS2501	125C, 6.0 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0435	DS80C320	125C, 5.5 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0435	DS80C320	125C, 5.5 VOLTS	1000 HRS	77	0	
VISUAL INSPECTION			WHISKERS < 50uM		3	0	
HIGH TEMP OP LIFE	0435	DS80C320	125C, 5.5 VOLTS	1000 HRS	77	0	
VISUAL INSPECTION			WHISKERS < 50uM		3	0	
HIGH TEMP OP LIFE	0435	DS80C320	125C, 5.5 VOLTS	1000 HRS	77	0	
VISUAL INSPECTION			WHISKERS < 50uM		3	0	
HIGH TEMP OP LIFE	0437	DS2751	125C, 5.5 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0440	DS1955B0	85 C, 5.25 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0440	DS87C520	125C, 5.5 VOLTS	12 HRS	1000	0	
HIGH TEMP OP LIFE	0440	DS87C520	125C, 5.5 VOLTS	12 HRS	1000	0	
HIGH TEMP OP LIFE	0440	DS87C520	125C, 5.5 VOLTS	12 HRS	806	0	
HIGH TEMP OP LIFE	0440	DS87C520	125C, 5.5 VOLTS	988 HRS	75	0	
HIGH TEMP OP LIFE	0441	DS2433	125C, 6.0 VOLTS	1000 HRS	45	0	

HIGH TEMP OP LIFE	0441	DS2401	125C, 6.0 VOLTS	1000 HRS	80	0
HIGH TEMP OP LIFE	0442	DS2433	125C, 6.0 VOLTS	1000 HRS	45	0
HIGH TEMP OP LIFE	0442	DS2433	125C, 6.0 VOLTS	1000 HRS	45	0
HIGH TEMP OP LIFE	0443	DS2433	125C, 6.0 VOLTS	1000 HRS	45	0
HIGH TEMP OP LIFE	0443	DS2433	125C, 6.0 VOLTS	1000 HRS	45	0
HIGH TEMP OP LIFE	0444	DS2433	125C, 6.0 VOLTS	1000 HRS	45	0
HIGH TEMP OP LIFE	0444	DS2118M	125C, 5.5 VOLTS	1000 HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM		5	0
HIGH TEMP OP LIFE	0444	DS80C320	125C, 5.5 VOLTS	1000 HRS	75	0
HIGH TEMP OP LIFE	0445	DS1955B0	85 C, 5.25 VOLTS	1000 HRS	77	0
HIGH TEMP OP LIFE	0445	DS1955B0	85 C, 5.25 VOLTS	1000 HRS	77	0
HIGH TEMP OP LIFE	0445	DS87C520	125C, 5.5 VOLTS	1000 HRS	77	0
HIGH TEMP OP LIFE	0446	DS2119M	125C, 5.5 VOLTS	1000 HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM		3	0
HIGH TEMP OP LIFE	0446	DS2119M	125C, 5.5 VOLTS	1000 HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM		3	0
HIGH TEMP OP LIFE	0446	DS2119M	125C, 5.5 VOLTS	1000 HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM		3	0
HIGH TEMP OP LIFE	0450	DS80C320	125C, 5.5 VOLTS	1000 HRS	77	0
HIGH TEMP OP LIFE	0451	DS1955B0	85 C, 5.25 VOLTS	1000 HRS	77	0
HIGH TEMP OP LIFE	0451	DS2120	125C, 5.5 VOLTS	1000 HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM		3	0
HIGH TEMP OP LIFE	0451	DS80C320	125C, 5.5 VOLTS	1000 HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM		3	0
HIGH TEMP OP LIFE	0452	DS12885	125C, 5.0 VOLTS	1000 HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM		3	0
HIGH TEMP OP LIFE	0452	DS12885	125C, 5.0 VOLTS	1000 HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM		3	0
HIGH TEMP OP LIFE	0452	DS2120	125C, 5.5 VOLTS	1000 HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM		3	0
HIGH TEMP OP LIFE	0453	DS2120	125C, 5.5 VOLTS	1000 HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM		3	0
HIGH TEMP OP LIFE	0501	DS12885	125C, 5.5 VOLTS	1000 HRS	75	0
VISUAL INSPECTION			WHISKERS < 50uM		3	0
HIGH TEMP OP LIFE	0501	DS12885	125C, 5.0 VOLTS	1000 HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM		3	0
HIGH TEMP OP LIFE	0501	DS12885	125C, 5.5 VOLTS	1000 HRS	76	0
VISUAL INSPECTION			WHISKERS < 50uM		3	0
HIGH TEMP OP LIFE	0502	DS1501	125C, 5.0 VOLTS	1000 HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM		3	0
HIGH TEMP OP LIFE	0502	DS1501	125C, 5.0 VOLTS	1000 HRS	45	0

VISUAL INSPECTION	0502	DS1501	WHISKERS < 50uM			3	
HIGH TEMP OP LIFE	0502	DS1501	125C, 5.0 VOLTS	1000	HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
HIGH TEMP OP LIFE	0504	DS2118M	125C, 5.5 VOLTS	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
HIGH VOLTAGE LIFE	0505	DS87C550	125C, 5.5 VOLTS	1000	HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
HIGH VOLTAGE LIFE	0505	DS87C550	125C, 5.5 VOLTS	1000	HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
HIGH TEMP OP LIFE	0506	DS1672	125C, 3.3 VOLTS	1000	HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
HIGH TEMP OP LIFE	0506	DS1849	125C, 5.5 VOLTS	1000	HRS	77	0
HIGH TEMP OP LIFE	0507	DS1672	125C, 3.3 VOLTS	1000	HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
HIGH TEMP OP LIFE	0507	DS1849	125C, 5.5 VOLTS	1000	HRS	77	0
HIGH TEMP OP LIFE	0507	DS1849	125C, 5.5 VOLTS	1000	HRS	77	0
HIGH TEMP OP LIFE	0507	DS1086H	125C, 5.25 VOLTS	408	HRS	77	0
HIGH TEMP OP LIFE	0508	DS1672	125C, 3.3 VOLTS	1000	HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
HIGH TEMP OP LIFE	0509	DS80C320	125C, 5.5 VOLTS	1000	HRS	77	0
HIGH TEMP OP LIFE	0511	DS12885	125C, 5.0 VOLTS	1000	HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
HIGH TEMP OP LIFE	0511	DS12885	125C, 5.0 VOLTS	1000	HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
HIGH TEMP OP LIFE	0511	DS12885	125C, 5.0 VOLTS	1000	HRS	45	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
HIGH TEMP OP LIFE	0521	DS1099	125C, 5.5 VOLTS	1000	HRS	77	0
						Total:	0

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0427	DS1553	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0429	DS1501	150C	1000	HRS	77	0
STORAGE LIFE	0429	DS1501	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0430	DS1849	150C	1000	HRS	76	0
STORAGE LIFE	0432	DS12885	150C	1000	HRS	77	0
STORAGE LIFE	0432	DS12885	150C	1000	HRS	77	0
STORAGE LIFE	0432	DS1501	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			77	0
STORAGE LIFE	0433	DS1553	150C	1000	HRS	77	0

VISUAL INSPECTION	0433	DS1553	WHISKERS < 50uM			3	0
STORAGE LIFE	0433	DS80C320	150C	1000	HRS	55	0
STORAGE LIFE	0433	DS1501	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0435	DS80C320	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0435	DS80C320	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0435	DS80C320	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	
STORAGE LIFE	0440	DS1955B0	85 C	1000	HRS	77	0
STORAGE LIFE	0440	DS87C520	150C	1000	HRS	76	0
STORAGE LIFE	0441	DS2433	150C	1000	HRS	79	0
STORAGE LIFE	0442	DS2433	150C	1000	HRS	77	0
STORAGE LIFE	0442	DS2433	150C	1000	HRS	91	0
STORAGE LIFE	0443	DS2433	150C	1000	HRS	77	0
STORAGE LIFE	0443	DS2433	150C	1000	HRS	61	0
STORAGE LIFE	0444	DS2433	150C	1000	HRS	77	0
STORAGE LIFE	0444	DS2118M	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			5	0
STORAGE LIFE	0444	DS80C320	150C	1000	HRS	50	0
STORAGE LIFE	0445	DS1955B0	85 C	1000	HRS	70	0
STORAGE LIFE	0445	DS1955B0	85 C	1000	HRS	77	0
STORAGE LIFE	0445	DS1955B0	85 C	1000	HRS	77	0
STORAGE LIFE	0445	DS87C520	150C	1000	HRS	50	0
STORAGE LIFE	0446	DS2119M	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0446	DS2119M	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0446	DS2119M	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0451	DS1955B0	85 C	1000	HRS	77	0
STORAGE LIFE	0451	DS2120	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0451	DS80C320	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0452	DS12885	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0452	DS12885	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0

STORAGE LIFE	0452	DS2120	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0453	DS2120	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0501	DS12885	150C	1000	HRS	76	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0501	DS12885	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0501	DS12885	150C	1000	HRS	76	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0502	DS1501	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0502	DS1501	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0502	DS1501	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0504	DS2118M	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0505	DS87C550	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0505	DS87C550	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0506	DS1672	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0506	DS1849	150C	1000	HRS	77	0
STORAGE LIFE	0507	DS1672	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0507	DS1849	150C	1000	HRS	77	0
STORAGE LIFE	0507	DS1849	150C	1000	HRS	77	0
STORAGE LIFE	0508	DS1672	150C	1000	HRS	75	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0509	DS80C320	150C	1000	HRS	50	0
STORAGE LIFE	0511	DS12885	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0511	DS12885	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
STORAGE LIFE	0511	DS12885	150C	1000	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
Total:							0

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE	0427	DS1553	-55C TO 125C	1000	CYS	77	0

VISUAL INSPECTION	0427	DS1553	WHISKERS < 50uM			3	0
TEMP CYCLE	0428	DS2401	-55C TO 125C	1000	CYS	45	0
TEMP CYCLE	0428	DS21352	-55C TO 125C	1000	CYS	80	0
TEMP CYCLE	0429	DS1501	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0429	DS1501	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0430	DS1849	-55C TO 125C	1000	CYS	77	0
TEMP CYCLE	0432	DS12885	-55C TO 125C	1000	CYS	77	0
TEMP CYCLE	0432	DS12885	-55C TO 125C	1000	CYS	77	0
TEMP CYCLE	0432	DS1501	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0433	DS1553	-55C TO 125C	1000	CYS	77	0
TEMP CYCLE	0433	DS80C320	-55C TO 125C	1000	CYS	60	0
TEMP CYCLE	0433	DS1501	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0434	DS2501	-55C TO 125C	1000	CYS	77	0
TEMP CYCLE	0435	DS80C320	-55C TO 125C	1000	CYS	45	0
TEMP CYCLE	0435	DS80C320	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0435	DS80C320	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0435	DS80C320	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0437	DS2751	-55C TO 125C	1000	CYS	77	0
TEMP CYCLE	0440	DS1955B0	-40 TO 85C	1000	CYS	77	0
TEMP CYCLE	0440	DS87C520	-55C TO 125C	1000	CYS	76	0
TEMP CYCLE	0441	DS2433	-55C TO 125C	1000	CYS	77	0
TEMP CYCLE	0441	DS2401	-55C TO 125C	1000	CYS	45	0
TEMP CYCLE	0442	DS2433	-55C TO 125C	1000	CYS	77	0
TEMP CYCLE	0442	DS2433	-55C TO 125C	1000	CYS	89	0
TEMP CYCLE	0443	DS2433	-55C TO 125C	1000	CYS	77	0
TEMP CYCLE	0443	DS2433	-55C TO 125C	1000	CYS	65	0
TEMP CYCLE	0444	DS2433	-55C TO 125C	1000	CYS	77	0
TEMP CYCLE	0444	DS2118M	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			5	0
TEMP CYCLE	0444	DS80C320	-55C TO 125C	1000	CYS	50	0
TEMP CYCLE	0445	DS87C520	-55C TO 125C	1000	CYS	50	0
TEMP CYCLE	0446	DS2119M	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0

TEMP CYCLE	0446	DS2119M	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0446	DS2119M	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0450	DS80C320	-55C TO 125C	1000	CYS	45	0
TEMP CYCLE	0451	DS1955B0	-40 TO 85C	1000	CYS	77	0
TEMP CYCLE	0451	DS2120	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0451	DS80C320	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0452	DS12885	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0452	DS12885	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	
TEMP CYCLE	0452	DS2120	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0453	DS2120	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0501	DS12885	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0501	DS12885	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0501	DS12885	-55C TO 125C	1000	CYS	75	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0502	DS1501	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0502	DS1501	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0502	DS1501	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0504	DS2118M	-55C TO 125C	1000	CYS	70	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0505	DS87C550	-55C TO 125C	1000	CYS	76	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0505	DS87C550	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0506	DS1672	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0506	DS1849	-55C TO 125C	1000	CYS	77	0
TEMP CYCLE	0507	DS1672	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0507	DS1849	-55C TO 125C	1000	CYS	77	0

TEMP CYCLE	0507	DS1849	-55C TO 125C	1000	CYS	77	0
TEMP CYCLE	0508	DS1672	-55C TO 125C	1000	CYS	76	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0509	DS80C320	-55C TO 125C	1000	CYS	50	0
TEMP CYCLE	0511	DS12885	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0511	DS12885	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0511	DS12885	-55C TO 125C	1000	CYS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
TEMP CYCLE	0521	DS1099	-55C TO 125C	1000	CYS	77	0
Total:						0	0

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HAST	0427	DS1553	130C, 85%R.H.,5.5V	96	HRS	57	0
HAST	0428	DS2401	130C, 85%R.H.,5.5V	96	HRS	77	0
HAST	0429	DS1501	130C, 85%R.H.,5.5V	96	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
HAST	0429	DS1501	130C, 85%R.H.,5.5V	96	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
BIASED MOISTURE	0432	DS12885	85/85, 5.5 VOLTS	1000	HRS	77	0
BIASED MOISTURE	0432	DS12885	85/85, 5.5 VOLTS	1000	HRS	77	0
HAST	0432	DS1501	130C, 85%R.H.,5.5V	96	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			77	0
HAST	0433	DS1553	130C, 85%R.H.,5.5V	96	HRS	73	0
BIASED MOISTURE	0433	DS80C320	85/85, 5.5 VOLTS	1000	HRS	45	0
HAST	0433	DS1501	130C, 85%R.H.,5.5V	96	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			75	0
HAST	0434	DS2501	130C, 85%R.H.,5.5V	96	HRS	77	0
BIASED MOISTURE	0435	DS80C320	85/85, 5.5 VOLTS	1000	HRS	77	0
HAST	0435	DS80C320	130C, 85%R.H.,5.5V	96	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
HAST	0435	DS80C320	130C, 85%R.H.,5.5V	96	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
HAST	0435	DS80C320	130C, 85%R.H.,5.5V	96	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
BIASED MOISTURE	0437	DS2751	85/85, 5.5 VOLTS	1000	HRS	77	0
HAST	0440	DS87C520	130C, 85%R.H.,5.5V	96	HRS	75	0
HAST	0441	DS2433	130C, 85%R.H.,5.5V	96	HRS	77	0
HAST	0441	DS2401	130C, 85%R.H.,5.5V	96	HRS	77	0

HAST	0442	DS2433	130C, 85%R.H.,5.5V	96	HRS	77	0
HAST	0442	DS2433	130C, 85%R.H.,5.5V	96	HRS	91	0
HAST	0443	DS2433	130C, 85%R.H.,5.5V	96	HRS	77	0
HAST	0443	DS2433	130C, 85%R.H.,5.5V	96	HRS	63	0
HAST	0444	DS2433	130C, 85%R.H.,5.5V	96	HRS	77	0
HAST	0444	DS80C320	130C, 85%R.H.,5.5V	96	HRS	60	0
HAST	0445	DS87C520	130C, 85%R.H.,5.5V	96	HRS	60	0
BIASED MOISTURE VISUAL INSPECTION	0446	DS2119M	85/85, 5.5 VOLTS WHISKERS < 50uM	1000	HRS	45 3	0 0
BIASED MOISTURE VISUAL INSPECTION	0446	DS2119M	85/85, 5.5 VOLTS WHISKERS < 50uM	1000	HRS	45 3	0 0
BIASED MOISTURE VISUAL INSPECTION	0446	DS2119M	85/85, 5.5 VOLTS WHISKERS < 50uM	1000	HRS	45 3	0 0
BIASED MOISTURE	0450	DS80C320	85/85, 5.5 VOLTS	1000	HRS	77	0
BIASED MOISTURE VISUAL INSPECTION	0451	DS2120	85/85, 5.5 VOLTS WHISKERS < 50uM	1000	HRS	45 3	0 0
HAST VISUAL INSPECTION	0451	DS80C320	130C, 85%R.H.,5.5V WHISKERS < 50uM	96	HRS	77 3	0 0
HAST VISUAL INSPECTION	0452	DS12885	130C, 85%R.H.,5.5V WHISKERS < 50uM	96	HRS	77 3	0 0
HAST VISUAL INSPECTION	0452	DS12885	130C, 85%R.H.,5.5V WHISKERS < 50uM	96	HRS	77 3	0 0
BIASED MOISTURE VISUAL INSPECTION	0452	DS2120	85/85, 5.5 VOLTS WHISKERS < 50uM	1000	HRS	45 3	0 0
BIASED MOISTURE VISUAL INSPECTION	0453	DS2120	85/85, 5.5 VOLTS WHISKERS < 50uM	1000	HRS	45 3	0 0
HAST VISUAL INSPECTION	0501	DS12885	130C, 85%R.H.,5.5V WHISKERS < 50uM	96	HRS	77 3	0 0
HAST VISUAL INSPECTION	0501	DS12885	130C, 85%R.H.,5.5V WHISKERS < 50uM	96	HRS	77 3	0 0
HAST VISUAL INSPECTION	0501	DS12885	130C, 85%R.H.,5.5V WHISKERS < 50uM	96	HRS	75 3	0 0
HAST VISUAL INSPECTION	0502	DS1501	130C, 85%R.H.,3.5V WHISKERS < 50uM	96	HRS	77 3	0 0
HAST VISUAL INSPECTION	0502	DS1501	130C, 85%R.H.,3.5V WHISKERS < 50uM	96	HRS	77 3	0 0
HAST VISUAL INSPECTION	0502	DS1501	130C, 85%R.H.,3.5V WHISKERS < 50uM	96	HRS	77 3	0 0
BIASED MOISTURE VISUAL INSPECTION	0505	DS87C550	85/85, 5.5 VOLTS WHISKERS < 50uM	1000	HRS	45 3	0 0
BIASED MOISTURE VISUAL INSPECTION	0505	DS87C550	85/85, 5.5 VOLTS WHISKERS < 50uM	1000	HRS	45 3	0 0

HAST VISUAL INSPECTION	0506	DS1672	130C, 85%R.H.,3.5V WHISKERS < 50uM	96	HRS	77 3	0 0
HAST VISUAL INSPECTION	0507	DS1672	130C, 85%R.H.,3.5V WHISKERS < 50uM	96	HRS	77 3	0 0
HAST VISUAL INSPECTION	0508	DS1672	130C, 85%R.H.,3.5V WHISKERS < 50uM	96	HRS	77 3	0 0
HAST	0509	DS80C320	130C, 85%R.H.,5.5V	96	HRS	59	0
HAST VISUAL INSPECTION	0511	DS12885	130C, 85%R.H.,5.5V WHISKERS < 50uM	96	HRS	77 3	0 0
HAST VISUAL INSPECTION	0511	DS12885	130C, 85%R.H.,5.5V WHISKERS < 50uM	96	HRS	77 3	0 0
HAST VISUAL INSPECTION	0511	DS12885	130C, 85%R.H.,5.5V WHISKERS < 50uM	96	HRS	77 3	0 0
HAST	0521	DS1099	130C, 85%R.H.,5.5V	96	HRS	77	0
Total:						0	0

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HAST, NO BIAS	0427	DS1553	130C, 85% R.H.	200	HRS	77	0
AUTOCLAVE	0428	DS2401	121C, 2 ATM STEAM, UNBIASED	168	HRS	45	0
HAST, NO BIAS	0428	DS21352	130C, 85% R.H.	100	HRS	78	0
HAST, NO BIAS	0429	DS1501	130C, 85% R.H.	200	HRS	76	0
HAST, NO BIAS	0429	DS1501	130C, 85% R.H.	200	HRS	77	0
MOISTURE SOAK	0430	DS1849	85 C/85% R.H.	1000	HRS	77	0
AUTOCLAVE	0432	DS12885	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
AUTOCLAVE	0432	DS12885	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
HAST, NO BIAS VISUAL INSPECTION	0432	DS1501	130C, 85% R.H. WHISKERS < 50uM	200	HRS	74 74	0 0
HAST, NO BIAS	0433	DS1553	130C, 85% R.H.	200	HRS	77	0
AUTOCLAVE	0433	DS80C320	121C, 2 ATM STEAM, UNBIASED	168	HRS	58	0
HAST, NO BIAS VISUAL INSPECTION	0433	DS1501	130C, 85% R.H. WHISKERS < 50uM	200	HRS	77 77	0 0
AUTOCLAVE	0434	DS2501	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
AUTOCLAVE	0435	DS80C320	121C, 2 ATM STEAM, UNBIASED	96	HRS	45	0
AUTOCLAVE VISUAL INSPECTION	0435	DS80C320	121C, 2 ATM STEAM, UNBIASED WHISKERS < 50uM	168	HRS	77 3	0 0
AUTOCLAVE VISUAL INSPECTION	0435	DS80C320	121C, 2 ATM STEAM, UNBIASED WHISKERS < 50uM	168	HRS	77 3	0 0
AUTOCLAVE VISUAL INSPECTION	0435	DS80C320	121C, 2 ATM STEAM, UNBIASED WHISKERS < 50uM	168	HRS	76 3	0 0
AUTOCLAVE	0437	DS2751	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0

MOISTURE SOAK	0440	DS1955B0	60C/90% R.H.	1000	HRS	77	0
AUTOCLAVE	0440	DS87C520	121C, 2 ATM STEAM, UNBIASED	168	HRS	76	0
AUTOCLAVE	0441	DS2433	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
AUTOCLAVE	0441	DS2401	121C, 2 ATM STEAM, UNBIASED	168	HRS	45	0
AUTOCLAVE	0442	DS2433	121C, 2 ATM STEAM, UNBIASED	168	HRS	76	0
AUTOCLAVE	0442	DS2433	121C, 2 ATM STEAM, UNBIASED	168	HRS	92	0
AUTOCLAVE	0443	DS2433	121C, 2 ATM STEAM, UNBIASED	168	HRS	75	0
AUTOCLAVE	0443	DS2433	121C, 2 ATM STEAM, UNBIASED	168	HRS	62	0
AUTOCLAVE	0444	DS2433	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
AUTOCLAVE	0444	DS2118M	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			5	0
MOISTURE SOAK	0445	DS1955B0	60C/90% R.H.	1000	HRS	71	0
MOISTURE SOAK	0445	DS1955B0	60C/90% R.H.	1000	HRS	77	0
MOISTURE SOAK	0445	DS1955B0	60C/90% R.H.	1000	HRS	77	0
AUTOCLAVE	0446	DS2119M	121C, 2 ATM STEAM, UNBIASED	168	HRS	75	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0446	DS2119M	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0446	DS2119M	121C, 2 ATM STEAM, UNBIASED	168	HRS	74	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0450	DS80C320	121C, 2 ATM STEAM, UNBIASED	96	HRS	45	0
MOISTURE SOAK	0451	DS1955B0	60C/90% R.H.	1000	HRS	77	0
AUTOCLAVE	0451	DS2120	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0451	DS80C320	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0452	DS12885	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0452	DS12885	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0452	DS2120	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0453	DS2120	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0501	DS12885	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0501	DS12885	121C, 2 ATM STEAM, UNBIASED	168	HRS	76	0
VISUAL INSPECTION			WHISKERS < 50uM			76	0
AUTOCLAVE	0501	DS12885	121C, 2 ATM STEAM, UNBIASED	168	HRS	75	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0502	DS1501	121C, 2 ATM STEAM, UNBIASED	168	HRS	73	0

VISUAL INSPECTION	0502	DS1501	WHISKERS < 50uM			3	0
AUTOCLAVE	0502	DS1501	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0502	DS1501	121C, 2 ATM STEAM, UNBIASED	168	HRS	76	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0504	DS2118M	121C, 2 ATM STEAM, UNBIASED	168	HRS	70	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0505	DS87C550	121C, 2 ATM STEAM, UNBIASED	168	HRS	76	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0505	DS87C550	121C, 2 ATM STEAM, UNBIASED	168	HRS	75	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0506	DS1672	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
MOISTURE SOAK	0506	DS1849	85 C/85% R.H.	1000	HRS	75	0
AUTOCLAVE	0507	DS1672	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
MOISTURE SOAK	0507	DS1849	85 C/85% R.H.	1000	HRS	76	0
MOISTURE SOAK	0507	DS1849	85 C/85% R.H.	1000	HRS	77	0
AUTOCLAVE	0508	DS1672	121C, 2 ATM STEAM, UNBIASED	168	HRS	75	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0511	DS12885	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0511	DS12885	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0511	DS12885	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
VISUAL INSPECTION			WHISKERS < 50uM			3	0
AUTOCLAVE	0521	DS1099	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
Total:							0

W/E ENDURANCE AND DATA RET'N

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
WRITE CYCLE STRESS (KCYS)	0437	DS2751	85 C, 5.5 VOLTS	30	KCYS	77	0
STORAGE LIFE			150C	1000	HRS	77	0
WRITE CYCLE STRESS (KCYS)	0507	DS1086H	70 C, 5.25 VOLTS	5	KCYS	77	0
STORAGE LIFE			150C	500	HRS	77	0
Total:							0

FAILURE RATE:

MTTF (YRS): 460811

FITS: 0.2