

RELIABILITY MONITOR REPORT
FOR

SOIC Package

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 Package Reliability Monitor. The assemblies covered by this package monitor are:

ASSY SITE	PINS	PACKAGE		
ATK (Amkor, K)	14	SOIC	ATK (Amkor, K)	16 SOIC
ATK (Amkor, K)	20	SOIC	ATK (Amkor, K)	24 SOIC
ATK (Amkor, K)	28	SOIC	ATK (Amkor, K)	8 SOIC
ATP (Amkor, PI)	14	SOIC	ATP (Amkor, PI)	16 SOIC
ATP (Amkor, PI)	20	SOIC	ATP (Amkor, PI)	24 SOIC
ATP (Amkor, PI)	28	SOIC	ATP (Amkor, PI)	8 SOIC
ATP (Amkor, PI)	16	SOIC (Pb-Free)	ATP (Amkor, PI)	24 SOIC (Pb-Free)
ATP (Amkor, PI)	28	SOIC (Pb-Free)	ATP (Amkor, PI)	8 SOIC (Pb-Free)
ATP (Amkor, PI)	16	SOIC w/CRYSTAL	Carsem	14 SOIC
Carsem	16	SOIC	Carsem	20 SOIC
Carsem	24	SOIC	Carsem	28 SOIC
Carsem	8	SOIC	Carsem	14 SOIC (Pb-Free)
Carsem	16	SOIC (Pb-Free)	Carsem	8 SOIC (Pb-Free)
Hana	8	SOIC	Hana	8 SOIC (Pb-Free)
NSEB	8	SOIC	NSEB	14 SOIC (Pb-Free)
NSEB	16	SOIC (Pb-Free)	NSEB	8 SOIC (Pb-Free)
OSEP	14	SOIC	OSEP	16 SOIC
OSEP	20	SOIC	OSEP	24 SOIC
OSEP	28	SOIC	OSEP	8 SOIC

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 204388 FITS: 0.6

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 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 04/01/2004 and 03/31/2005.

Assembly Information:

Package Type: SOIC 150 mil
 Flammability: UL 94-V0
 Moisture Sensitivity Level 1
 (JEDEC J-STD20A)
 Date Code Range: 0403 to 0507

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0403	DS1803	125C, 5.25 VOLTS	1000 HRS	75	0	
HIGH TEMP OP LIFE	0406	DS1232	125C, 5.5 VOLTS	1000 HRS	80	0	
HIGH TEMP OP LIFE	0411	DS2431	125C, 5.25 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0414	DS4302	125C, 5.5 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0426	DS1310	125C, 3.6 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0428	DS2482-1	125C, 5.5 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0429	DS1232	125C, 5.5 VOLTS	1000 HRS	77	0	

HIGH TEMP OP LIFE	0432	DS2804	125C, 5.25 VOLTS	1000	HRS	77	0
HIGH TEMP OP LIFE	0435	DS620	125C, 3.5 VOLTS	1000	HRS	77	0
HIGH TEMP OP LIFE	0437	DS2711	125C, 5.5 VOLTS	1000	HRS	45	0
HIGH TEMP OP LIFE	0441	DS2502	125C, 6.0 VOLTS	1000	HRS	77	0
HIGH TEMP OP LIFE	0442	DS2482-1	125C, 5.5 VOLTS	1000	HRS	45	0
HIGH TEMP OP LIFE	0451	DS2431	125C, 5.25 VOLTS	1000	HRS	77	0
HIGH TEMP OP LIFE	0504	DS2413	125C, 5.25 VOLTS	1000	HRS	45	0
HIGH TEMP OP LIFE	0505	DS1629	125C, 5.5 VOLTS	1000	HRS	77	0
HIGH TEMP OP LIFE	0507	DS1086H	125C, 5.25 VOLTS	408	HRS	77	0
Total:							0

PRECONDITIONING LEVEL 1

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
ULTRASOUND	0403	DS1803	J-STD-020		4	0	
STORAGE LIFE	0403	DS1803	125C	24	HRS	241	
MOISTURE SOAK			85 C/85% R.H.	168	HRS	241	
CONVECTION REFLOW			235C +5/-0C	3	PASS	241	0
PRECONDITION U/S	0403	DS1803	J-STD-020		3	0	
ULTRASOUND	0406	DS1232	J-STD-020		4	0	
STORAGE LIFE	0406	DS1232	125C	24	HRS	241	
MOISTURE SOAK			85 C/85% R.H.	168	HRS	241	
CONVECTION REFLOW			235C +5/-0C	3	PASS	241	0
PRECONDITION U/S	0406	DS1232	J-STD-020		4	0	
ULTRASOUND	0437	DS1232	J-STD-020		241	0	
STORAGE LIFE	0437	DS1232	125C	24	HRS	241	
MOISTURE SOAK			85 C/85% R.H.	168	HRS	241	
CONVECTION REFLOW			235C +5/-0C	3	PASS	241	
Total:							0

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE	0403	DS1803	-55C TO 125C	1000	CYS	40	0
TEMP CYCLE	0406	DS1232	-55C TO 125C	1000	CYS	40	0
TEMP CYCLE	0411	DS2431	-55C TO 125C	1000	CYS	77	0
TEMP CYCLE	0429	DS1232	-55C TO 125C	1000	CYS	77	0
TEMP CYCLE	0451	DS2431	-55C TO 125C	1000	CYS	77	0
Total:							0

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE	0403	DS1803	85/85, 5.5 VOLTS	1000	HRS	70	0
HAST	0406	DS1232	130C, 85%R.H.,5.5V	96	HRS	77	0
HAST	0411	DS2431	130C, 85%R.H.,5.5V	96	HRS	77	0

HAST	0429	DS1232	130C, 85%R.H.,5.5V	96	HRS	77	0
HAST	0451	DS2431	130C, 85%R.H.,5.5V	96	HRS	77	0
Total:							0

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
AUTOCLAVE	0403	DS1803	121C, 2 ATM STEAM, UNBIASED	168	HRS	40	0
AUTOCLAVE	0406	DS1232	121C, 2 ATM STEAM, UNBIASED	96	HRS	40	0
AUTOCLAVE	0411	DS2431	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
AUTOCLAVE	0429	DS1232	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
AUTOCLAVE	0451	DS2431	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
Total:							0

Assembly Information:

Package Type: SOIC 208 mil
 Flammability: UL 94-V0
 Moisture Sensitivity (JEDEC J-STD20A) Level 1
 Date Code Range: 0430 to 0430

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0430	DS1624	125C, 5.5 VOLTS	1000	HRS	77	0
Total:							0

PRECONDITIONING LEVEL 1

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0430	DS1624	125C	24	HRS	385	
MOISTURE SOAK			85 C/85% R.H.	168	HRS	385	
CONVECTION REFLOW			235C +/-0C	3	PASS	385	1 30027057
Total:							1

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0430	DS1624	150C	1000	HRS	77	0
Total:							0

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE	0430	DS1624	-55C TO 125C	1000	CYS	77	0
Total:							0

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HAST	0430	DS1624	130C, 85%R.H.,5.5V	96	HRS	76	0
Total:							0

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
AUTOCLAVE	0430	DS1624	121C, 2 ATM STEAM, UNBIASED	168 HRS	77	0	
Total:						0	

Assembly Information:

Package Type: SOIC 300 mil
Flammability: UL 94-V0
Moisture Sensitivity (JEDEC J-STD20A) Level 1
Date Code Range: 0427 to 0427

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0427	DS2422	125C, 5.5V (PSA) & 3.0V (PSB)	1000 HRS	77	0	
Total:						0	

Assembly Information:

Package Type: SOIC (Pb-Free) 150 mil
Flammability: UL 94-V0
Moisture Sensitivity (JEDEC J-STD20A) Level 4
Date Code Range: 0412 to 0413

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0412	DS1073	125C, 3.5 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0413	DS1073	125C, 3.5 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0413	DS1073	125C, 3.5 VOLTS	1000 HRS	77	0	
Total:						0	

PACKAGE TESTS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
SOLDERABILITY (Sn/Pb)	0412	DS1073	JESD22-B102, COND C		3	0	
X-RAY	0412	DS1073	MIL-STD-883-2012 : TOP & SIDE VIEW		6	0	
PHYSICAL DIMENSIONS			JESD22-B100		6	0	
MARK PERMANENCY			JESD22-B107		6	0	
LEAD INTEGRITY			JESD22-B105, COND B		6	0	
SOLDERABILITY (Sn/Pb)	0413	DS1073	JESD22-B102, COND C		3	0	
X-RAY	0413	DS1073	MIL-STD-883-2012 : TOP & SIDE VIEW		6	0	
PHYSICAL DIMENSIONS			JESD22-B100		6	0	
MARK PERMANENCY			JESD22-B107		6	0	
LEAD INTEGRITY			JESD22-B105, COND B		6	0	
SOLDERABILITY (Sn/Pb)	0413	DS1073	JESD22-B102, COND C		3	3	
X-RAY	0413	DS1073	MIL-STD-883-2012 : TOP & SIDE VIEW		6	0	
PHYSICAL DIMENSIONS			JESD22-B100		6	0	

MARK PERMANENCY	0413	DS1073	JESD22-B107			6	0
LEAD INTEGRITY			JESD22-B105, COND B			6	0
						Total:	3

PRECONDITIONING LEVEL 4

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0412	DS1073	125C	24	HRS	385	
MOISTURE SOAK			30C/60% R.H.	96	HRS	385	
CONVECTION REFLOW			260C +/-5C	3	PASS	385	0
STORAGE LIFE	0413	DS1073	125C	24	HRS	385	
MOISTURE SOAK			30C/60% R.H.	96	HRS	385	
CONVECTION REFLOW			260C +/-5C	3	PASS	385	0
STORAGE LIFE	0413	DS1073	125C	24	HRS	385	
MOISTURE SOAK			30C/60% R.H.	96	HRS	385	
CONVECTION REFLOW			260C +/-5C	3	PASS	385	0
						Total:	0

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0412	DS1073	150C	1000	HRS	77	0
STORAGE LIFE	0413	DS1073	150C	1000	HRS	77	0
STORAGE LIFE	0413	DS1073	150C	1000	HRS	77	0
						Total:	0

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE	0412	DS1073	-55C TO 125C	1000	CYS	77	0
TEMP CYCLE	0413	DS1073	-55C TO 125C	1000	CYS	77	0
TEMP CYCLE	0413	DS1073	-55C TO 125C	1000	CYS	77	0
						Total:	0

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HAST	0412	DS1073	130C, 85%R.H.,3.5V	156	HRS	45	0
HAST	0413	DS1073	130C, 85%R.H.,3.5V	156	HRS	45	0
HAST	0413	DS1073	130C, 85%R.H.,3.5V	156	HRS	45	0
						Total:	0

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
AUTOCLAVE	0412	DS1073	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
AUTOCLAVE	0413	DS1073	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
AUTOCLAVE	0413	DS1073	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
						Total:	0

Assembly Information:

Package Type: SOIC w/Crystal 300 mil
Flammability: UL 94-V0
Moisture Sensitivity (JEDEC J-STD20A) Level 3
Date Code Range: 0434 to 0452

MOISTURE SENSITIVITY LEVEL 3

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
EXTERNAL VISUAL	0434	DS32KHZ	J-STD-020, 6.1a		8	0	
ULTRASOUND			J-STD-020		8	0	
STORAGE LIFE			125C	24 HRS	8		
MOISTURE SOAK			30C/60% R.H.	192 HRS	8		
CONVECTION REFLOW			235C +5/-0C	2 PASS	8	0	
EXTERNAL VISUAL			J-STD-020, 6.1a		8	0	
PRECONDITION U/S			J-STD-020		8	0	
EXTERNAL VISUAL	0434	DS32KHZ	J-STD-020, 6.1a		8	0	
ULTRASOUND			J-STD-020		8	0	
STORAGE LIFE			125C	24 HRS	8		
MOISTURE SOAK			30C/60% R.H.	192 HRS	8		
CONVECTION REFLOW			235C +5/-0C	2 PASS	8	0	
EXTERNAL VISUAL			J-STD-020, 6.1a		8	0	
PRECONDITION U/S			J-STD-020		8	0	
EXTERNAL VISUAL	0435	DS32KHZ	J-STD-020, 6.1a		8	0	
ULTRASOUND			J-STD-020		8	0	
STORAGE LIFE			125C	24 HRS	8		
MOISTURE SOAK			30C/60% R.H.	192 HRS	8		
CONVECTION REFLOW			235C +5/-0C	2 PASS	8	0	
EXTERNAL VISUAL			J-STD-020, 6.1a		8	0	
PRECONDITION U/S			J-STD-020		8	0	
EXTERNAL VISUAL	0451	DS32KHZ	J-STD-020, 6.1a		8	0	
ULTRASOUND			J-STD-020		8	0	
STORAGE LIFE			125C	24 HRS	8		
MOISTURE SOAK			30C/60% R.H.	192 HRS	8		
CONVECTION REFLOW			235C +5/-0C	2 PASS	8	0	
EXTERNAL VISUAL			J-STD-020, 6.1a		8	0	
PRECONDITION U/S			J-STD-020		8	0	
EXTERNAL VISUAL	0451	DS32KHZ	J-STD-020, 6.1a		8	0	
ULTRASOUND			J-STD-020		8	0	
STORAGE LIFE			125C	24 HRS	8		
MOISTURE SOAK			30C/60% R.H.	192 HRS	8		
CONVECTION REFLOW			235C +5/-0C	2 PASS	8	0	
EXTERNAL VISUAL			J-STD-020, 6.1a		8	0	
PRECONDITION U/S			J-STD-020		8	0	
EXTERNAL VISUAL	0452	DS32KHZ	J-STD-020, 6.1a		8	0	
ULTRASOUND			J-STD-020		8	0	
STORAGE LIFE			125C	24 HRS	8		
MOISTURE SOAK			30C/60% R.H.	192 HRS	8		
CONVECTION REFLOW			235C +5/-0C	2 PASS	8	0	
EXTERNAL VISUAL			J-STD-020, 6.1a		8	0	
PRECONDITION U/S			J-STD-020		8	0	

Total: 0

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0434	DS32KHZ	125C, 5.5 VOLTS	1000 HRS	64	0	
HIGH TEMP OP LIFE	0434	DS32KHZ	125C, 5.5 VOLTS	1000 HRS	64	0	
HIGH TEMP OP LIFE	0435	DS32KHZ	125C, 5.5 VOLTS	1000 HRS	64	0	
HIGH TEMP OP LIFE	0451	DS32KHZ	125C, 5.5 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0451	DS32KHZ	125C, 5.5 VOLTS	1000 HRS	45	0	
HIGH TEMP OP LIFE	0452	DS32KHZ	125C, 5.5 VOLTS	1000 HRS	45	0	
Total:						0	

PACKAGE TESTS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
SOLDERABILITY (Sn/Pb)	0434	DS32KHZ	JESD22-B102, COND C		3	0	
X-RAY	0434	DS32KHZ	MIL-STD-883-2012 : TOP & SIDE VIEW		6	0	
PHYSICAL DIMENSIONS			JESD22-B100		6	0	
MARK PERMANENCY			JESD22-B107		6	0	
LEAD INTEGRITY			JESD22-B105, COND B		6	0	
SOLDERABILITY (Sn/Pb)	0434	DS32KHZ	JESD22-B102, COND C		3	0	
X-RAY	0434	DS32KHZ	MIL-STD-883-2012 : TOP & SIDE VIEW		6	0	
PHYSICAL DIMENSIONS			JESD22-B100		6	0	
MARK PERMANENCY			JESD22-B107		6	0	
LEAD INTEGRITY			JESD22-B105, COND B		6	0	
SOLDERABILITY (Sn/Pb)	0435	DS32KHZ	JESD22-B102, COND C		3	0	
X-RAY	0435	DS32KHZ	MIL-STD-883-2012 : TOP & SIDE VIEW		6	0	
PHYSICAL DIMENSIONS			JESD22-B100		6	0	
MARK PERMANENCY			JESD22-B107		6	0	
LEAD INTEGRITY			JESD22-B105, COND B		6	0	
X-RAY	0451	DS32KHZ	MIL-STD-883-2012 : TOP & SIDE VIEW		6	0	
PHYSICAL DIMENSIONS			JESD22-B100		6	0	
MARK PERMANENCY			JESD22-B107		6	0	
LEAD INTEGRITY			JESD22-B105, COND B		6	0	
X-RAY	0451	DS32KHZ	MIL-STD-883-2012 : TOP & SIDE VIEW		6	0	
PHYSICAL DIMENSIONS			JESD22-B100		6	0	
MARK PERMANENCY			JESD22-B107		6	0	
LEAD INTEGRITY			JESD22-B105, COND B		6	0	
X-RAY	0452	DS32KHZ	MIL-STD-883-2012 : TOP & SIDE VIEW		6	0	
PHYSICAL DIMENSIONS			JESD22-B100		6	0	
MARK PERMANENCY			JESD22-B107		6	0	
LEAD INTEGRITY			JESD22-B105, COND B		6	0	
Total:						0	

PRECONDITIONING LEVEL 3

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0434	DS32KHZ	125C	24 HRS	449		
MOISTURE SOAK			30C/60% R.H.	192 HRS	449	0	

CONVECTION REFLOW	0434	DS32KHZ	235C +5/-0C	2	PASS	449	0
STORAGE LIFE	0434	DS32KHZ	125C	24	HRS	449	
MOISTURE SOAK			30C/60% R.H.	192	HRS	449	
CONVECTION REFLOW			235C +5/-0C	2	PASS	449	0
STORAGE LIFE	0435	DS32KHZ	125C	24	HRS	449	
MOISTURE SOAK			30C/60% R.H.	192	HRS	449	
CONVECTION REFLOW			235C +5/-0C	2	PASS	449	0
STORAGE LIFE	0451	DS32KHZ	125C	24	HRS	353	
MOISTURE SOAK			30C/60% R.H.	192	HRS	353	
CONVECTION REFLOW			235C +5/-0C	2	PASS	353	0
STORAGE LIFE	0451	DS32KHZ	125C	24	HRS	353	
MOISTURE SOAK			30C/60% R.H.	192	HRS	353	
CONVECTION REFLOW			235C +5/-0C	2	PASS	353	0
STORAGE LIFE	0452	DS32KHZ	125C	24	HRS	353	
MOISTURE SOAK			30C/60% R.H.	192	HRS	353	
CONVECTION REFLOW			235C +5/-0C	2	PASS	353	0
Total:							0

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0434	DS32KHZ	125C	1000 HRS	77	0	
STORAGE LIFE	0434	DS32KHZ	125C	1000 HRS	77	0	
STORAGE LIFE	0435	DS32KHZ	125C	1000 HRS	77	0	
STORAGE LIFE	0451	DS32KHZ	125C	1000 HRS	77	0	
STORAGE LIFE	0451	DS32KHZ	125C	1000 HRS	77	0	
STORAGE LIFE	0452	DS32KHZ	125C	1000 HRS	77	0	
Total:							0

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE	0434	DS32KHZ	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0434	DS32KHZ	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0435	DS32KHZ	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0451	DS32KHZ	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0451	DS32KHZ	-40 TO 85C	1000 CYS	77	0	
TEMP CYCLE	0452	DS32KHZ	-40 TO 85C	1000 CYS	77	0	
Total:							0

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE	0434	DS32KHZ	85/85, 5.5 VOLTS	1000 HRS	77	0	
BIASED MOISTURE	0434	DS32KHZ	85/85, 5.5 VOLTS	1000 HRS	77	0	
BIASED MOISTURE	0435	DS32KHZ	85/85, 5.5 VOLTS	1000 HRS	77	0	
BIASED MOISTURE	0451	DS32KHZ	85/85, 5.5 VOLTS	1000 HRS	77	0	

BIASED MOISTURE	0451	DS32KHZ	85/85, 5.5 VOLTS	1000 HRS	77	0
BIASED MOISTURE	0452	DS32KHZ	85/85, 5.5 VOLTS	1000 HRS	77	0
Total:						0

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
AUTOCLAVE	0434	DS32KHZ	121C, 2 ATM STEAM, UNBIASED	168 HRS	77	0	
MOISTURE SOAK	0434	DS32KHZ	60C/90% R.H.	1000 HRS	77	0	
AUTOCLAVE	0434	DS32KHZ	121C, 2 ATM STEAM, UNBIASED	168 HRS	77	0	
MOISTURE SOAK	0434	DS32KHZ	60C/90% R.H.	1000 HRS	77	0	
AUTOCLAVE	0435	DS32KHZ	121C, 2 ATM STEAM, UNBIASED	168 HRS	77	0	
MOISTURE SOAK	0435	DS32KHZ	60C/90% R.H.	1000 HRS	77	0	
AUTOCLAVE	0451	DS32KHZ	121C, 2 ATM STEAM, UNBIASED	168 HRS	77	0	
AUTOCLAVE	0451	DS32KHZ	121C, 2 ATM STEAM, UNBIASED	168 HRS	77	0	
AUTOCLAVE	0452	DS32KHZ	121C, 2 ATM STEAM, UNBIASED	168 HRS	77	0	
Total:						0	

FAILURE RATE: **MTTF (YRS): 204388** **FITS: 0.6**