

## RELIABILITY MONITOR

STRESS: ULTRASOUND

CONDITIONS: J-STD-020

PRODUCT	REV	MONITOR		DATE ASSEMBLY		LOT NO.	PACKAGE	READ		
		DATE	JOB NO	CODE	FACILITY			POINT	QTY	FAIL
DS1233	A5	JAN 99	P23064	9842	CARSEM	DM823017AB	SOT-223	1	4	0
DS1803	A2	NOV 98	P22797	9833	CHIPPAC, KOREA	DL820412AAB	16PN, 150 MIL SOI	1	4	0
DS1869	A3	MAR 99	P23360	9829	ALPHTK-BANGKOK(NSEB)	DJ821534ABB	8PN SOIC, 208MIL	1	4	0
DS2109	A7	DEC 98	P22902	9836	CARSEM	DM811524AA-	28 PIN SOIC	1	4	0
DS2153	A7	DEC 98	P22904	9833	ANAM-K (ASI/AICL)	DN811539AAB	44 PIN PLCC	1	4	0
DS2175	D1	JAN 99	P23069	9838	ANAM-PI (ATP/AAPI)	DK826585AA	16 PIN SOIC	1	4	0
DS21S07A	B2	NOV 98	P22799	9825	ANAM-PI (ATP/AAPI)	DK809216AC	20 PIN TSSOP	1	4	0
DS5002	B3	JAN 99	P23073	9846	CARSEM	DM830493AA	80 PIN PQFP	1	4	0
DS87C520	A13	NOV 98	P22843	9832	ANAM-K (ASI/AICL)	DN821500AAB	44 PIN PLCC	1	4	0
DS87C520	A11	FEB 99	P23306	9838	ANAM-K (ASI/AICL)	DN825394AAB	44 PIN PLCC	1	4	0

## RELIABILITY MONITOR

STRESS: TEMP CYCLE

CONDITIONS: -55 TO 125°C

PRODUCT	REV	MONITOR		DATE ASSEMBLY		LOT NO.	PACKAGE	READ		
		DATE	JOB NO	CODE	FACILITY			POINT	QTY	FAIL
DS1000	E3	JAN 99	P23179	9847	CHIPPAC, CHINA (CPS)	DH833179ADA	8 PIN PDIP	300	40	0
DS1000	E3	JAN 99	P23179	9847	CHIPPAC, CHINA (CPS)	DH833179ADA	8 PIN PDIP	1000	40	0
DS1233	A5	JAN 99	P23251	9842	CARSEM	DM823017AB	SOT-223	300	40	0
DS1233	A5	JAN 99	P23251	9842	CARSEM	DM823017AB	SOT-223	1000	40	0
DS1233	A5	APR 99	P23940	9911	CARSEM	DM837033AB	SOT-223	300	40	0
DS1233	A5	APR 99	P23940	9911	CARSEM	DM837033AB	SOT-223	1000	40	0
DS1803	A2	NOV 98	P23924	9833	CHIPPAC, KOREA	DL820412AAB	16PN, 150 MIL SOI	300	40	0
DS1803	A2	NOV 98	P23924	9833	CHIPPAC, KOREA	DL820412AAB	16PN, 150 MIL SOI	1000	40	0
DS2109	A7	DEC 98	P23156	9836	CARSEM	DM811524AA-	28 PIN SOIC	300	50	0
DS2109	A7	DEC 98	P23156	9836	CARSEM	DM811524AA-	28 PIN SOIC	1000	50	0
DS2118M	A4	MAR 99	P23601	9904	ANAM-K (ASI/AICL)	DN844402AAC	36PN SSOP	300	40	0
DS2118M	A4	MAR 99	P23601	9904	ANAM-K (ASI/AICL)	DN844402AAC	36PN SSOP	1000	40	0
DS2153	A7	DEC 98	P23192	9833	ANAM-K (ASI/AICL)	DN811539AAB	44 PIN PLCC	1000	60	0
DS2175	D1	JAN 99	P23234	9838	ANAM-PI (ATP/AAPI)	DK826585AA	16 PIN SOIC	300	40	0
DS2175	D1	JAN 99	P23234	9838	ANAM-PI (ATP/AAPI)	DK826585AA	16 PIN SOIC	1000	40	0
DS2180A	B3	APR 99	P23880	9850	ANAM-K (ASI/AICL)	DN839402AAC	44 PIN PLCC	300	60	0
DS2180A	B3	APR 99	P23880	9850	ANAM-K (ASI/AICL)	DN839402AAC	44 PIN PLCC	1000	60	0
DS21S07A	B2	NOV 98	P23128	9825	ANAM-PI (ATP/AAPI)	DK809216AC	20 PIN TSSOP	300	40	0
DS21S07A	B2	NOV 98	P23128	9825	ANAM-PI (ATP/AAPI)	DK809216AC	20 PIN TSSOP	1000	40	0
DS2401	B2	DEC 98	P22923	9815	CARSEM	DM803085AA	TO-92	300	40	0
DS2401	B2	DEC 98	P22923	9815	CARSEM	DM803085AA	TO-92	1000	40	0
DS2401	C2	MAR 99	P23402	9851	CARSEM	DM832008AIA	TO-92	300	40	0

# RELIABILITY MONITOR

STRESS: TEMP CYCLE

CONDITIONS: -55 TO 125°C

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAIL
DS2401	C2	MAR 99	P23402	9851	CARSEM	DM832008AIA	TO-92	1000	40	0
DS5002	B3	JAN 99	P23230	9846	CARSEM	DM830493AA	80 PIN PQFP	300	40	0
DS5002	B3	JAN 99	P23230	9846	CARSEM	DM830493AA	80 PIN PQFP	1000	40	0
DS80C320	B5	JAN 99	P23224	9841	ANAM-PI (ATP/AAPI)	DK827694AA	40 PIN PDIP	300	40	0
DS80C320	B5	JAN 99	P23224	9841	ANAM-PI (ATP/AAPI)	DK827694AA	40 PIN PDIP	1000	40	0
DS80C320	C4	APR 99	P23691	9903	ANAM-PI (ATP/AAPI)	DK826547AA	40 PIN PDIP	300	40	0
DS80C320	C4	APR 99	P23691	9903	ANAM-PI (ATP/AAPI)	DK826547AA	40 PIN PDIP	1000	40	0
DS87C520	A13	NOV 98	P23594	9832	ANAM-K (ASI/AICL)	DN821500AAB	44 PIN PLCC	300	40	0
DS87C520	A13	NOV 98	P23594	9832	ANAM-K (ASI/AICL)	DN821500AAB	44 PIN PLCC	1000	40	0

# RELIABILITY MONITOR

STRESS: TEMP CYCLE

CONDITIONS: 0 TO 70°C

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAIL
DS1225A	A1	FEB 98	P23291	9840	DALLAS	106494	28 PIN MODULE	300	100	0
DS1225A	A1	FEB 98	P23291	9840	DALLAS	106494	28 PIN MODULE	1000	100	0
DS1230A	A1	JAN 99	P23289	9852	DALLAS	10435	28 PIN MODULE	300	100	0
DS1230A	A1	JAN 99	P23289	9852	DALLAS	10435	28 PIN MODULE	1000	100	0
DS12887	A2	JAN 99	P23119	9849	DALLAS	105030	24 PIN MODULE	300	100	0
DS12887	A2	JAN 99	P23119	9849	DALLAS	105030	24 PIN MODULE	1000	100	0
DS1643	B2	FEB 99	P23272	9905	DALLAS	107121	28 PIN MODULE	300	77	0
DS1643	B2	FEB 99	P23272	9905	DALLAS	107121	28 PIN MODULE	1000	77	0
DS1991	E6	DEC 98	P23028	9839	DALLAS	DS743257AA1	F50 TOUCH MEMO	300	77	0
DS1991	E6	DEC 98	P23028	9839	DALLAS	DS743257AA1	F50 TOUCH MEMO	1000	77	0

# RELIABILITY MONITOR

STRESS: SOLDERABILITY

CONDITIONS: MIL-STD-883-2003

PRODUCT	REV	MONITOR		DATE ASSEMBLY		LOT NO.	PACKAGE	READ		
		DATE	JOB NO	CODE	FACILITY			POINT	QTY	FAIL
DS1225A	A1	FEB 98	P23259	9840	DALLAS	106494	28 PIN MODULE	1	3	0
DS1230A	A1	JAN 99	P23149	9852	DALLAS	10435	28 PIN MODULE	1	3	0
DS12887	A2	JAN 99	P23066	9849	DALLAS	105030	24 PIN MODULE	1	3	0
DS12887	C1	APR 99	P23664	9909	DALLAS	107432	24 PIN MODULE	1	3	0
DS1643	B2	FEB 99	P23269	9905	DALLAS	107121	28 PIN MODULE	1	3	0
DS5000T	D6	FEB 99	P23630	9909	DALLAS	108112	40PN SB MODULE	1	2	0

# RELIABILITY MONITOR

STRESS: SOLDER HEAT

CONDITIONS: HTC VAPOR PHASE

PRODUCT	REV	MONITOR DATE	JOB NO	DATE ASSEMBLY CODE FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAIL
DS1803	A2	NOV 98	P22798	9833 CHIPPAC, KOREA	DL820412AAB	16PN, 150 MIL SOI	3	238	0
DS1803	A2	FEB 99	P23275	9835 CHIPPAC, KOREA	DL818111AAB	16PN, 150 MIL SOI	3	238	0
DS2109	A7	DEC 98	P22903	9836 CARSEM	DM811524AA-	28 PIN SOIC	3	237	0
DS2153	A7	DEC 98	P22905	9833 ANAM-K (ASI/AICL)	DN811539AAB	44 PIN PLCC	3	241	0
DS2153	A7	MAR 99	P23368	9901 ANAM-K (ASI/AICL)	DN819185AAB	44 PIN PLCC	3	241	0
DS2180A	B3	APR 99	P23668	9850 ANAM-K (ASI/AICL)	DN839402AAC	44 PIN PLCC	3	241	0
DS21S07A	B2	NOV 98	P22800	9825 ANAM-PI (ATP/AAPI)	DK809216AC	20 PIN TSSOP	3	238	0
DS5002	B3	JAN 99	P23074	9846 CARSEM	DM830493AA	80 PIN PQFP	3	203	0
DS5002	B3	APR 99	P23672	9905 CARSEM	DM831680AA	80 PIN PQFP	3	203	0
DS87C520	A13	NOV 98	P22844	9832 ANAM-K (ASI/AICL)	DN821500AAB	44 PIN PLCC	3	241	0
DS87C520	A11	FEB 99	P23307	9838 ANAM-K (ASI/AICL)	DN825394AAB	44 PIN PLCC	3	239	0

# RELIABILITY MONITOR

STRESS: PHYSICAL DIMENSIONS

CONDITIONS: MIL-STD-883-2016

PRODUCT	REV	MONITOR DATE	JOB NO	DATE ASSEMBLY CODE FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAIL
DS12887	A2	JAN 99	P23067	9849 DALLAS	105030	24 PIN MODULE	1	6	0
DS1643	B2	FEB 99	P23270	9905 DALLAS	107121	28 PIN MODULE	1	6	0

# RELIABILITY MONITOR

STRESS: MOISTURE SOAK

CONDITIONS: 60°C/90% R.H.

PRODUCT	REV	MONITOR DATE	JOB NO	DATE ASSEMBLY CODE FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAIL
DS1225A	A1	FEB 98	P23292	9840 DALLAS	106494	28 PIN MODULE	288	100	0
DS1225A	A1	FEB 98	P23292	9840 DALLAS	106494	28 PIN MODULE	960	100	0
DS1230A	A1	JAN 99	P23290	9852 DALLAS	10435	28 PIN MODULE	288	100	0
DS1230A	A1	JAN 99	P23290	9852 DALLAS	10435	28 PIN MODULE	960	100	0
DS1991	E6	DEC 98	P23029	9839 DALLAS	DS743257AA1	F50 TOUCH MEMO	288	76	0
DS1991	E6	DEC 98	P23029	9839 DALLAS	DS743257AA1	F50 TOUCH MEMO	960	76	0

# RELIABILITY MONITOR

STRESS: I/L, 85°C STORAGE

CONDITIONS: 85°C, NO BIAS

PRODUCT	REV	MONITOR DATE	JOB NO	DATE ASSEMBLY CODE	FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAIL
DS1230A	A1	JAN 99	P23151	9852	DALLAS	10435	28 PIN MODULE	48	200	0
DS12887	C1	APR 99	P23666	9909	DALLAS	107432	24 PIN MODULE	48	200	0

# RELIABILITY MONITOR

STRESS: HIGH TEMP STORAGE

CONDITIONS: 150°C

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAIL
DS87C520	A13	NOV 98	P23596	9832	ANAM-K (ASI/AICL)	DN821500AAB	44 PIN PLCC	336	59	0
DS87C520	A13	NOV 98	P23596	9832	ANAM-K (ASI/AICL)	DN821500AAB	44 PIN PLCC	1000	59	1

# RELIABILITY MONITOR

STRESS: HIGH TEMP STORAGE

CONDITIONS: 70°C

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAIL
DS1643	B2	FEB 99	P23271	9905	DALLAS	107121	28 PIN MODULE	336	77	0
DS1643	B2	FEB 99	P23271	9905	DALLAS	107121	28 PIN MODULE	1000	77	0
DS1991	E6	DEC 98	P23027	9839	DALLAS	DS743257AA1	F50 TOUCH MEMO	336	77	0
DS1991	E6	DEC 98	P23027	9839	DALLAS	DS743257AA1	F50 TOUCH MEMO	1000	77	0
DS1991	E7	MAR 99	P23419	9853	DALLAS	DS838180AA-	F50 TOUCH MEMO	336	77	0
DS1991	E7	MAR 99	P23419	9853	DALLAS	DS838180AA-	F50 TOUCH MEMO	1000	77	0

# RELIABILITY MONITOR

STRESS: HIGH TEMP STORAGE

CONDITIONS: 85°C

PRODUCT	REV	MONITOR DATE	JOB NO	DATE ASSEMBLY CODE FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAIL
DS1225A	A1	FEB 98	P23261	9840 DALLAS	106494	28 PIN MODULE	48	200	0
DS12887	A2	JAN 99	P23068	9849 DALLAS	105030	24 PIN MODULE	48	200	0

# RELIABILITY MONITOR

STRESS: HAST

CONDITIONS: 120°C, 85%R.H.,5.5V

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAIL
DS1233	A5	JAN 99	P23252	9842	CARSEM	DM823017AB	SOT-223	100	72	0
DS2109	A7	DEC 98	P23157	9836	CARSEM	DM811524AA-	28 PIN SOIC	100	65	0
DS2401	B2	DEC 98	P22924	9815	CARSEM	DM803085AA	TO-92	100	77	0
DS2401	C2	MAR 99	P23403	9851	CARSEM	DM832008AIA	TO-92	100	77	0

# RELIABILITY MONITOR

STRESS: HAST

CONDITIONS: 130°C,85%R.H.,5.5V

PRODUCT	REV	MONITOR DATE	JOB NO	DATE ASSEMBLY CODE FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAIL
DS1233	A5	APR 99	P23941	9911 CARSEM	DM837033AB	SOT-223	100	72	0
DS2109	A7	MAR 99	P23834	9839 CARSEM	DM812688AA	28 PIN SOIC	100	66	0
DS2118M	A4	MAR 99	P23602	9904 ANAM-K (ASI/AICL)	DN844402AAC	36PN SSOP	100	77	1
DS2180A	B3	APR 99	P23881	9850 ANAM-K (ASI/AICL)	DN839402AAC	44 PIN PLCC	100	60	0
DS87C520	A13	NOV 98	P23595	9832 ANAM-K (ASI/AICL)	DN821500AAB	44 PIN PLCC	100	59	0
DS87C520	A11	FEB 99	P23855	9838 ANAM-K (ASI/AICL)	DN825394AAB	44 PIN PLCC	100	59	0

# RELIABILITY MONITOR

STRESS: CONVECTION REFLOW

CONDITIONS: 235°C

PRODUCT	REV	MONITOR		DATE ASSEMBLY		LOT NO.	PACKAGE	READ		
		DATE	JOB NO	CODE	FACILITY			POINT	QTY	FAIL
DS1233	A5	JAN 99	P23065	9842	CARSEM	DM823017AB	SOT-223	3	233	0
DS1233	A5	APR 99	P23663	9911	CARSEM	DM837033AB	SOT-223	3	233	0
DS2109	A7	MAR 99	P23364	9839	CARSEM	DM812688AA	28 PIN SOIC	3	237	0
DS2109	A7	JUN 99	P23948	9839	CARSEM	DM811523AA	28 PIN SOIC	3	237	0
DS2118M	A4	MAR 99	P23366	9904	ANAM-K (ASI/AICL)	DN844402AAC	36PN SSOP	3	238	0
DS2118M	A4	JUN 99	P23950	9912	ANAM-K (ASI/AICL)	DN848138AAA	36PN SSOP	3	238	0
DS2175	D1	JAN 99	P23070	9838	ANAM-PI (ATP/AAPI)	DK826585AA	16 PIN SOIC	3	238	0
DS2502	C2	MAR 99	P23636	9913	CARSEM	DM842206AL	8 PIN SOIC	3	238	0

## RELIABILITY MONITOR

STRESS: BIASED MOISTURE

CONDITIONS: 85/85, 5.5 VOLTS

PRODUCT	REV	MONITOR		DATE	ASSEMBLY		LOT NO.	PACKAGE	READ		
		DATE	JOB NO		CODE	FACILITY			POINT	QTY	FAIL
DS1000	E3	JAN 99	P23180	9847	CHIPPAC, CHINA (CPS)	DH833179ADA	8 PIN PDIP	274	77	0	
DS1000	E3	JAN 99	P23180	9847	CHIPPAC, CHINA (CPS)	DH833179ADA	8 PIN PDIP	959	77	0	
DS12887	A2	JAN 99	P23120	9849	DALLAS	105030	24 PIN MODULE	274	100	0	
DS12887	A2	JAN 99	P23120	9849	DALLAS	105030	24 PIN MODULE	959	100	0	
DS2175	D1	JAN 99	P23235	9838	ANAM-PI (ATP/AAPI)	DK826585AA	16 PIN SOIC	274	77	0	
DS2175	D1	JAN 99	P23235	9838	ANAM-PI (ATP/AAPI)	DK826585AA	16 PIN SOIC	959	77	0	
DS21S07A	B2	NOV 98	P23129	9825	ANAM-PI (ATP/AAPI)	DK809216AC	20 PIN TSSOP	274	77	0	
DS21S07A	B2	NOV 98	P23129	9825	ANAM-PI (ATP/AAPI)	DK809216AC	20 PIN TSSOP	959	77	0	
DS5002	B3	JAN 99	P23231	9846	CARSEM	DM830493AA	80 PIN PQFP	274	42	0	
DS5002	B3	JAN 99	P23231	9846	CARSEM	DM830493AA	80 PIN PQFP	959	42	0	
DS80C320	B5	JAN 99	P23225	9841	ANAM-PI (ATP/AAPI)	DK827694AA	40 PIN PDIP	274	77	0	
DS80C320	B5	JAN 99	P23225	9841	ANAM-PI (ATP/AAPI)	DK827694AA	40 PIN PDIP	959	77	0	

## RELIABILITY MONITOR

STRESS: AUTOCLAVE

CONDITIONS: 121°C STEAM, UNBIASED

PRODUCT	REV	MONITOR		DATE	ASSEMBLY		LOT NO.	PACKAGE	READ		
		DATE	JOB NO		CODE	FACILITY			POINT	QTY	FAIL
DS1000	E3	JAN 99	P23181	9847	CHIPPAC, CHINA (CPS)	DH833179ADA	8 PIN PDIP	96	40	0	
DS1233	A5	JAN 99	P23253	9842	CARSEM	DM823017AB	SOT-223	96	40	0	
DS1233	A5	APR 99	P23942	9911	CARSEM	DM837033AB	SOT-223	96	40	0	
DS1803	A2	NOV 98	P23926	9833	CHIPPAC, KOREA	DL820412AAB	16PN, 150 MIL SOI	96	40	0	
DS1803	A2	FEB 99	P24006	9835	CHIPPAC, KOREA	DL818111AAB	16PN, 150 MIL SOI	96	38	2	
DS2109	A7	DEC 98	P23158	9836	CARSEM	DM811524AA-	28 PIN SOIC	96	40	0	
DS2109	A7	MAR 99	P23835	9839	CARSEM	DM812688AA	28 PIN SOIC	96	35	4	
DS2118M	A4	MAR 99	P23603	9904	ANAM-K (ASI/AICL)	DN844402AAC	36PN SSOP	96	40	0	
DS2118M	A4	JUN 99	P24073	9912	ANAM-K (ASI/AICL)	DN848138AAA	36PN SSOP	96	40	0	
DS2153	A7	DEC 98	P23193	9833	ANAM-K (ASI/AICL)	DN811539AAB	44 PIN PLCC	96	100	0	
DS2175	D1	JAN 99	P23236	9838	ANAM-PI (ATP/AAPI)	DK826585AA	16 PIN SOIC	96	40	0	
DS2180A	B3	APR 99	P23882	9850	ANAM-K (ASI/AICL)	DN839402AAC	44 PIN PLCC	96	38	1	
DS21S07A	B2	NOV 98	P23130	9825	ANAM-PI (ATP/AAPI)	DK809216AC	20 PIN TSSOP	96	37	0	
DS2401	B2	DEC 98	P22925	9815	CARSEM	DM803085AA	TO-92	96	40	0	
DS2401	C2	MAR 99	P23404	9851	CARSEM	DM832008AIA	TO-92	96	40	0	
DS5002	B3	JAN 99	P23232	9846	CARSEM	DM830493AA	80 PIN PQFP	96	39	0	
DS5002	B3	APR 99	P23976	9905	CARSEM	DM831680AA	80 PIN PQFP	96	40	0	
DS80C320	B5	JAN 99	P23226	9841	ANAM-PI (ATP/AAPI)	DK827694AA	40 PIN PDIP	96	40	0	
DS80C320	C4	APR 99	P23693	9903	ANAM-PI (ATP/AAPI)	DK826547AA	40 PIN PDIP	96	40	0	