

RELIABILITY MONITOR

STRESS: WRITE CYCLE STRESS

CONDITIONS: 85 C, 5.5 VOLTS

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE ASSEMBLY CODE FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|---------|-----|-----------------|--------|--------------------------------|-------------|---------|---------------|-----|------|
| DS1620 | D1 | OCT '03 | 32507 | 0334 Hana | DU110113AA | SOIC | 50 | 50 | 0 |
| DS1621 | A7 | JUN '03 | 31732 | 0247 ATP (Amkor, PI) | DK104614AA | SOIC | 50 | 50 | 0 |
| DS1621 | A7 | SEP '03 | 32326 | 0326 OSEP | DE319631AAB | SOIC | 50 | 50 | 0 |

RELIABILITY MONITOR

STRESS: ULTRASOUND

CONDITIONS: J-STD-020

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE ASSEMBLY CODE | ASSEMBLY FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|----------|------|--------------|--------|--------------------|-------------------|-------------|---------|------------|-----|------|
| DS1100 | A3 | JUL '03 | 31896 | 0323 | NSEB | DJ330003ACC | SOIC | 1 | 4 | 0 |
| DS1100 | A3 | OCT '03 | 32520 | 0333 | ATP (Amkor, PI) | DK340403AA | SOIC | 1 | 4 | 0 |
| DS1232 | C2-L | JUL '03 | 31903 | 0327 | ATP (Amkor, PI) | DK343027AA | SOIC | 1 | 4 | 0 |
| DS1233 | A5-5 | JUL '03 | 31910 | 0326 | Hana | DU338107AK | SOT223 | 1 | 4 | 0 |
| DS1267 | A1-5 | APR '03 | 31313 | 0309 | ATP (Amkor, PI) | DK236020AFA | TSSOP | 5 | 4 | 0 |
| DS1267 | A1-5 | OCT '03 | 32759 | 0340 | ATP (Amkor, PI) | DK230310AC | TSSOP | 5 | 4 | 0 |
| DS1620 | D1 | OCT '03 | 32501 | 0334 | Hana | DU110113AA | SOIC | 7 | 4 | 0 |
| DS1621 | A7 | JUN '03 | 31726 | 0247 | ATP (Amkor, PI) | DK104614AA | SOIC | 7 | 4 | 0 |
| DS1621 | A7 | SEP '03 | 32320 | 0326 | OSEP | DE319631AAB | SOIC | 7 | 4 | 0 |
| DS1803 | A2- | OCT '02 | 30226 | 0234 | ATP (Amkor, PI) | DK236047AA | SOIC | 2 | 4 | 0 |
| DS1803 | A2- | APR '03 | 31258 | 0304 | OSEP | DE322628AAB | SOIC | 2 | 4 | 0 |
| DS1803 | A2- | JUL '03 | 31925 | 0317 | OSEP | DE335021AAB | SOIC | 2 | 4 | 0 |
| DS2118M | C1-6 | JUN '03 | 31734 | 0303 | Carsem | DM316629AB | SSOP | 6 | 4 | 0 |
| DS2118M | C1-6 | SEP '03 | 32417 | 0309 | ATK (Amkor, K) | DN319658AA | SSOP | 6 | 4 | 0 |
| DS21352 | A4 | FEB '03 | 31026 | 0242 | ATP (Amkor, PI) | DK036653AA | LQFP | 2 | 4 | 0 |
| DS21352 | A4 | MAY '03 | 31398 | 0312 | Stats | DC043465AA | LQFP | 2 | 4 | 0 |
| DS21Q43 | A3- | FEB '03 | 30955 | 0305 | ATK (Amkor, K) | DN039537AA | LQFP | 1 | 4 | 0 |
| DS21Q43 | A3- | AUG '03 | 32246 | 0320 | ATK (Amkor, K) | DN041135AA | LQFP | 1 | 4 | 0 |
| DS2502 | C4 | JUL '03 | 31932 | 0327 | OSEP | DE328634AFB | TSOC | 2 | 4 | 0 |
| DS87C520 | A15- | DEC '02 | 30252 | 0232 | ATP (Amkor, PI) | DK241602AA | PLCC | 2 | 4 | 0 |

RELIABILITY MONITOR

STRESS: TEMP CYCLE

CONDITIONS: -40 TO 85C

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE CODE | ASSEMBLY FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|---------|------|-----------------|--------|--------------|----------------------|------------|-------------------|---------------|-----|------|
| DS12887 | A2- | JUL '03 | 31923 | 0318 | Fastech | 335549 | Module w/Bent Fra | 300 | 100 | 0 |
| DS12887 | A2- | OCT '03 | 32529 | 0323 | Fastech | MA336140AA | Module w/Bent Fra | 300 | 100 | 0 |
| DS1992 | S-Z(| SEP '03 | 32403 | 0332 | Fastech | MA336936AA | iButton F50 w/Bum | 500 | 77 | 0 |
| DS3832 | B-C | + DS3802 | 31659 | 0318 | Dallas | 315975 | BGA Module, 1 Sid | 500 | 8 | 0 |
| DS3832 | B-C | + DS3802 | 31659 | 0318 | Dallas | 315975 | BGA Module, 1 Sid | 1000 | 8 | 0 |

RELIABILITY MONITOR

STRESS: TEMP CYCLE

CONDITIONS: -55C TO 125C

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE CODE | ASSEMBLY FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|---------|------|--------------|--------|-----------|-------------------|-------------|---------|------------|-----|------|
| DS1100 | A3 | JUL '03 | 31900 | 0323 | NSEB | DJ330003ACC | SOIC | 500 | 40 | 0 |
| DS1100 | A3 | JUL '03 | 31900 | 0323 | NSEB | DJ330003ACC | SOIC | 1000 | 40 | 0 |
| DS1232 | C2-L | JUL '03 | 31907 | 0327 | ATP (Amkor, PI) | DK343027AA | SOIC | 500 | 40 | 0 |
| DS1232 | C2-L | JUL '03 | 31907 | 0327 | ATP (Amkor, PI) | DK343027AA | SOIC | 1000 | 40 | 0 |
| DS1233 | A5-5 | JUL '03 | 31914 | 0326 | Hana | DU338107AK | SOT223 | 700 | 40 | 0 |
| DS1233 | A5-5 | JUL '03 | 31914 | 0326 | Hana | DU338107AK | SOT223 | 1000 | 40 | 0 |
| DS1267 | A1-5 | APR '03 | 31317 | 0309 | ATP (Amkor, PI) | DK236020AFA | TSSOP | 500 | 40 | 0 |
| DS1267 | A1-5 | APR '03 | 31317 | 0309 | ATP (Amkor, PI) | DK236020AFA | TSSOP | 1000 | 40 | 0 |
| DS1267 | A1-5 | OCT '03 | 32763 | 0340 | ATP (Amkor, PI) | DK230310AC | TSSOP | 500 | 40 | 0 |
| DS1267 | A1-5 | OCT '03 | 32763 | 0340 | ATP (Amkor, PI) | DK230310AC | TSSOP | 1000 | 40 | 0 |
| DS1620 | D1 | OCT '03 | 32505 | 0334 | Hana | DU110113AA | SOIC | 500 | 40 | 0 |
| DS1620 | D1 | OCT '03 | 32505 | 0334 | Hana | DU110113AA | SOIC | 1000 | 40 | 0 |
| DS1621 | A7 | JUN '03 | 31730 | 0247 | ATP (Amkor, PI) | DK104614AA | SOIC | 500 | 40 | 0 |
| DS1621 | A7 | JUN '03 | 31730 | 0247 | ATP (Amkor, PI) | DK104614AA | SOIC | 1000 | 40 | 0 |
| DS1803 | A2- | OCT '02 | 30230 | 0234 | ATP (Amkor, PI) | DK236047AA | SOIC | 500 | 40 | 0 |
| DS1803 | A2- | OCT '02 | 30230 | 0234 | ATP (Amkor, PI) | DK236047AA | SOIC | 1000 | 40 | 0 |
| DS1803 | A2- | APR '03 | 31262 | 0304 | OSEP | DE322628AAB | SOIC | 500 | 40 | 0 |
| DS1803 | A2- | APR '03 | 31262 | 0304 | OSEP | DE322628AAB | SOIC | 1000 | 40 | 0 |
| DS2118M | C1-6 | JUN '03 | 31738 | 0303 | Carsem | DM316629AB | SSOP | 500 | 77 | 0 |
| DS2118M | C1-6 | JUN '03 | 31738 | 0303 | Carsem | DM316629AB | SSOP | 1000 | 77 | 0 |
| DS2118M | C1-6 | SEP '03 | 32421 | 0309 | ATK (Amkor, K) | DN319658AA | SSOP | 500 | 77 | 0 |
| DS2118M | C1-6 | SEP '03 | 32421 | 0309 | ATK (Amkor, K) | DN319658AA | SSOP | 1000 | 77 | 0 |

RELIABILITY MONITOR

STRESS: TEMP CYCLE

CONDITIONS: -55C TO 125C

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE CODE | ASSEMBLY FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|----------|------|--------------|--------|-----------|-------------------|-------------|---------|------------|-----|------|
| DS21352 | A4 | FEB '03 | 31030 | 0242 | ATP (Amkor, PI) | DK036653AA | LQFP | 500 | 80 | 0 |
| DS21352 | A4 | FEB '03 | 31030 | 0242 | ATP (Amkor, PI) | DK036653AA | LQFP | 1000 | 69 | 0 |
| DS21352 | A4 | MAY '03 | 31402 | 0312 | Stats | DC043465AA | LQFP | 500 | 80 | 0 |
| DS21352 | A4 | MAY '03 | 31402 | 0312 | Stats | DC043465AA | LQFP | 1000 | 73 | 0 |
| DS21Q43 | A3- | FEB '03 | 30959 | 0305 | ATK (Amkor, K) | DN039537AA | LQFP | 500 | 70 | 0 |
| DS2401 | C2 | AUG '03 | 32238 | 0331 | Hana | DU342603AB | TO92 | 500 | 45 | 0 |
| DS2401 | C2 | AUG '03 | 32238 | 0331 | Hana | DU342603AB | TO92 | 1000 | 45 | 0 |
| DS2502 | C4 | JUL '03 | 31935 | 0327 | OSEP | DE328634AFB | TSOC | 500 | 77 | 0 |
| DS2502 | C4 | JUL '03 | 31935 | 0327 | OSEP | DE328634AFB | TSOC | 1000 | 77 | 0 |
| DS80C320 | C5 | SEP '03 | 32414 | 0323 | ATEC | DQ338181AA | PDIP | 500 | 45 | 0 |
| DS80C320 | C5 | SEP '03 | 32414 | 0323 | ATEC | DQ338181AA | PDIP | 1000 | 45 | 0 |
| DS87C520 | A15- | DEC '02 | 30256 | 0232 | ATP (Amkor, PI) | DK241602AA | PLCC | 500 | 50 | 0 |
| DS87C520 | A15- | DEC '02 | 30256 | 0232 | ATP (Amkor, PI) | DK241602AA | PLCC | 1000 | 50 | 0 |

RELIABILITY MONITOR

STRESS: TEMP CYCLE

CONDITIONS: 0C TO 70C

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE CODE | ASSEMBLY FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|---------|-----|-----------------|--------|--------------|----------------------|------------|--------------------|---------------|-----|------|
| DS1643 | C1 | FEB '03 | 31041 | 0305 | Dallas | 334458 | Module w/Hi Densit | 500 | 77 | 0 |
| DS1643 | C1 | FEB '03 | 31041 | 0305 | Dallas | 334458 | Module w/Hi Densit | 1000 | 77 | 0 |
| DS1643 | C1 | MAY '03 | 31392 | 0317 | Fastech | 335494 | Module w/Hi Densit | 500 | 77 | 0 |
| DS1643 | C1 | MAY '03 | 31392 | 0317 | Fastech | 335494 | Module w/Hi Densit | 1000 | 77 | 0 |
| DS1643 | C1 | AUG '03 | 32244 | 0333 | Fastech | MA337100AA | Module w/Hi Densit | 500 | 77 | 0 |
| DS1643 | C1 | AUG '03 | 32244 | 0333 | Fastech | MA337100AA | Module w/Hi Densit | 1000 | 77 | 0 |

RELIABILITY MONITOR

STRESS: STORAGE LIFE

CONDITIONS: 150C

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE CODE | ASSEMBLY FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|---------|-----|-----------------|--------|--------------|----------------------|-------------|---------|---------------|-----|------|
| DS1620 | D1 | OCT '03 | 32508 | 0334 | Hana | DU110113AA | SOIC | 500 | 50 | 0 |
| DS1621 | A7 | JUN '03 | 31733 | 0247 | ATP (Amkor, PI) | DK104614AA | SOIC | 500 | 50 | 0 |
| DS1621 | A7 | JUN '03 | 31733 | 0247 | ATP (Amkor, PI) | DK104614AA | SOIC | 1000 | 50 | 0 |
| DS1621 | A7 | SEP '03 | 32327 | 0326 | OSEP | DE319631AAB | SOIC | 500 | 50 | 0 |
| DS1621 | A7 | SEP '03 | 32327 | 0326 | OSEP | DE319631AAB | SOIC | 1000 | 50 | 0 |

RELIABILITY MONITOR

STRESS: STORAGE LIFE

CONDITIONS: 70 C

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE CODE | ASSEMBLY FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|---------|------|-----------------|--------|--------------|----------------------|------------|--------------------|---------------|-----|------|
| DS1643 | C1 | FEB '03 | 31040 | 0305 | Dallas | 334458 | Module w/Hi Densit | 500 | 77 | 0 |
| DS1643 | C1 | FEB '03 | 31040 | 0305 | Dallas | 334458 | Module w/Hi Densit | 1000 | 77 | 0 |
| DS1643 | C1 | MAY '03 | 31391 | 0317 | Fastech | 335494 | Module w/Hi Densit | 500 | 77 | 0 |
| DS1643 | C1 | MAY '03 | 31391 | 0317 | Fastech | 335494 | Module w/Hi Densit | 1000 | 77 | 0 |
| DS1643 | C1 | AUG '03 | 32243 | 0333 | Fastech | MA337100AA | Module w/Hi Densit | 500 | 77 | 0 |
| DS1992 | S-Z(| SEP '03 | 32402 | 0332 | Fastech | MA336936AA | iButton F50 w/Bum | 500 | 77 | 0 |
| DS1992 | S-Z(| SEP '03 | 32402 | 0332 | Fastech | MA336936AA | iButton F50 w/Bum | 1000 | 77 | 0 |

RELIABILITY MONITOR

STRESS: STORAGE LIFE

CONDITIONS: 85 C

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE ASSEMBLY CODE FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|---------|-----|-----------------|--------|--------------------------------|---------|-------------------|---------------|-----|------|
| DS3832 | B-C | + DS3802 | 31658 | 0318 Dallas | 315975 | BGA Module, 1 Sid | 500 | 8 | 0 |
| DS3832 | B-C | + DS3802 | 31658 | 0318 Dallas | 315975 | BGA Module, 1 Sid | 1000 | 8 | 0 |

RELIABILITY MONITOR

STRESS: SOLDERABILITY

CONDITIONS: JESD22-B102

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE ASSEMBLY CODE FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|---------|-----|-----------------|--------|--------------------------------|------------|--------------------|---------------|-----|------|
| DS12887 | A2- | JUL '03 | 31921 | 0318 Fastech | 335549 | Module w/Bent Fra | 1 | 3 | 0 |
| DS12887 | A2- | OCT '03 | 32527 | 0323 Fastech | MA336140AA | Module w/Bent Fra | 1 | 3 | 0 |
| DS1643 | C1 | FEB '03 | 31038 | 0305 Dallas | 334458 | Module w/Hi Densit | 5 | 3 | 0 |
| DS1643 | C1 | MAY '03 | 31389 | 0317 Fastech | 335494 | Module w/Hi Densit | 5 | 3 | 0 |
| DS1643 | C1 | AUG '03 | 32241 | 0333 Fastech | MA337100AA | Module w/Hi Densit | 5 | 3 | 0 |

RELIABILITY MONITOR

STRESS: PRECONDITION U/S

CONDITIONS: J-STD-020

| PRODUCT | REV | MONITOR | | DATE | ASSEMBLY | | LOT NO. | PACKAGE | READ | | |
|----------|------|---------|--------|------|-----------------|-------------|---------|---------|-------|-----|------|
| | | DATE | JOB NO | | CODE | FACILITY | | | POINT | QTY | FAIL |
| DS1100 | A3 | JUL '03 | 31898 | 0323 | NSEB | DJ330003ACC | SOIC | 1 | 4 | 0 | |
| DS1232 | C2-L | JUL '03 | 31905 | 0327 | ATP (Amkor, PI) | DK343027AA | SOIC | 7 | 4 | 0 | |
| DS1233 | A5-5 | JUL '03 | 31912 | 0326 | Hana | DU338107AK | SOT223 | 2 | 4 | 0 | |
| DS1267 | A1-5 | APR '03 | 31315 | 0309 | ATP (Amkor, PI) | DK236020AFA | TSSOP | 2 | 4 | 0 | |
| DS1267 | A1-5 | OCT '03 | 32761 | 0340 | ATP (Amkor, PI) | DK230310AC | TSSOP | 2 | 4 | 0 | |
| DS1620 | D1 | OCT '03 | 32503 | 0334 | Hana | DU110113AA | SOIC | 7 | 4 | 0 | |
| DS1621 | A7 | JUN '03 | 31728 | 0247 | ATP (Amkor, PI) | DK104614AA | SOIC | 7 | 4 | 0 | |
| DS1621 | A7 | SEP '03 | 32322 | 0326 | OSEP | DE319631AAB | SOIC | 7 | 4 | 0 | |
| DS1803 | A2- | OCT '02 | 30228 | 0234 | ATP (Amkor, PI) | DK236047AA | SOIC | 2 | 4 | 0 | |
| DS1803 | A2- | APR '03 | 31260 | 0304 | OSEP | DE322628AAB | SOIC | 2 | 4 | 0 | |
| DS2118M | C1-6 | JUN '03 | 31736 | 0303 | Carsem | DM316629AB | SSOP | 6 | 4 | 0 | |
| DS2118M | C1-6 | SEP '03 | 32419 | 0309 | ATK (Amkor, K) | DN319658AA | SSOP | 6 | 4 | 0 | |
| DS21352 | A4 | FEB '03 | 31028 | 0242 | ATP (Amkor, PI) | DK036653AA | LQFP | 5 | 4 | 0 | |
| DS21352 | A4 | MAY '03 | 31400 | 0312 | Stats | DC043465AA | LQFP | 5 | 4 | 0 | |
| DS21Q43 | A3- | FEB '03 | 30957 | 0305 | ATK (Amkor, K) | DN039537AA | LQFP | 1 | 4 | 0 | |
| DS2502 | C4 | JUL '03 | 31934 | 0327 | OSEP | DE328634AFB | TSOC | 2 | 4 | 0 | |
| DS87C520 | A15- | DEC '02 | 30254 | 0232 | ATP (Amkor, PI) | DK241602AA | PLCC | 2 | 4 | 0 | |

RELIABILITY MONITOR

STRESS: PHYSICAL DIMENSIONS

CONDITIONS: JESD22-B100

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE ASSEMBLY CODE FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|---------|-----|-----------------|--------|--------------------------------|------------|--------------------|---------------|-----|------|
| DS12887 | A2- | JUL '03 | 31922 | 0318 Fastech | 335549 | Module w/Bent Fra | 1 | 6 | 0 |
| DS12887 | A2- | OCT '03 | 32528 | 0323 Fastech | MA336140AA | Module w/Bent Fra | 1 | 6 | 0 |
| DS1643 | C1 | FEB '03 | 31039 | 0305 Dallas | 334458 | Module w/Hi Densit | 5 | 6 | 0 |
| DS1643 | C1 | MAY '03 | 31390 | 0317 Fastech | 335494 | Module w/Hi Densit | 5 | 6 | 0 |
| DS1643 | C1 | AUG '03 | 32242 | 0333 Fastech | MA337100AA | Module w/Hi Densit | 5 | 6 | 0 |

RELIABILITY MONITOR

STRESS: MOISTURE SOAK

CONDITIONS: 60C/90% R.H.

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE ASSEMBLY CODE FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|---------|------|-----------------|--------|--------------------------------|------------|--------------------|---------------|-----|------|
| DS1643 | C1 | FEB '03 | 31042 | 0305 Dallas | 334458 | Module w/Hi Densit | 500 | 77 | 0 |
| DS1643 | C1 | FEB '03 | 31042 | 0305 Dallas | 334458 | Module w/Hi Densit | 1000 | 64 | 0 |
| DS1643 | C1 | MAY '03 | 31393 | 0317 Fastech | 335494 | Module w/Hi Densit | 500 | 77 | 0 |
| DS1643 | C1 | AUG '03 | 32245 | 0333 Fastech | MA337100AA | Module w/Hi Densit | 500 | 77 | 0 |
| DS1992 | S-Z(| SEP '03 | 32404 | 0332 Fastech | MA336936AA | iButton F50 w/Bum | 500 | 75 | 0 |
| DS1992 | S-Z(| SEP '03 | 32404 | 0332 Fastech | MA336936AA | iButton F50 w/Bum | 1000 | 75 | 0 |
| DS3832 | B-C | + DS3802 | 31660 | 0318 Dallas | 315975 | BGA Module, 1 Sid | 500 | 8 | 0 |
| DS3832 | B-C | + DS3802 | 31660 | 0318 Dallas | 315975 | BGA Module, 1 Sid | 1000 | 8 | 0 |

RELIABILITY MONITOR

STRESS: HAST, NO BIAS

CONDITIONS: 130C, 85% R.H.

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE ASSEMBLY CODE FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|---------|-----|-----------------|--------|--------------------------------|------------|---------|---------------|-----|------|
| DS21352 | A4 | FEB '03 | 31031 | 0242 ATP (Amkor, PI) | DK036653AA | LQFP | 96 | 78 | 0 |
| DS21352 | A4 | MAY '03 | 31403 | 0312 Stats | DC043465AA | LQFP | 96 | 77 | 0 |

RELIABILITY MONITOR

STRESS: HAST

CONDITIONS: 130C, 85%R.H.,5.5V

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE ASSEMBLY CODE FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|----------|------|-----------------|--------|--------------------------------|------------|---------|---------------|-----|------|
| DS1233 | A5-5 | JUL '03 | 31915 | 0326 Hana | DU338107AK | SOT223 | 96 | 77 | 0 |
| DS2401 | C2 | AUG '03 | 32239 | 0331 Hana | DU342603AB | TO92 | 96 | 77 | 0 |
| DS87C520 | A15- | DEC '02 | 30257 | 0232 ATP (Amkor, PI) | DK241602AA | PLCC | 96 | 59 | 0 |

RELIABILITY MONITOR

STRESS: EXTERNAL VISUAL

CONDITIONS: JESD22-B101

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE ASSEMBLY CODE FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|---------|-----|-----------------|--------|--------------------------------|---------|-------------------|---------------|-----|------|
| DS3832 | B-C | + DS3802 | 31656 | 0318 Dallas | 315975 | BGA Module, 1 Sid | 2 | 24 | 0 |
| DS3832 | B-C | + DS3802 | 31659 | 0318 Dallas | 315975 | BGA Module, 1 Sid | 6 | 8 | 0 |

RELIABILITY MONITOR

STRESS: CONVECTION REFLOW

CONDITIONS: 220C

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE ASSEMBLY CODE FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|----------|------|-----------------|--------|--------------------------------|------------|-------------------|---------------|-----|------|
| DS3832 | B-C | + DS3802 | 31656 | 0318 Dallas | 315975 | BGA Module, 1 Sid | 2 | 24 | 0 |
| DS87C520 | A15- | DEC '02 | 30253 | 0232 ATP (Amkor, PI) | DK241602AA | PLCC | 3 | 239 | 0 |

RELIABILITY MONITOR

STRESS: CONVECTION REFLOW

CONDITIONS: 235C

| PRODUCT | REV | MONITOR | | DATE | ASSEMBLY | LOT NO. | PACKAGE | READ | | |
|---------|------|---------|--------|------|-----------------|-------------|---------|------|----------|-------|
| | | DATE | JOB NO | | | | | CODE | FACILITY | POINT |
| DS1100 | A3 | JUL '03 | 31897 | 0323 | NSEB | DJ330003ACC | SOIC | 3 | 241 | 0 |
| DS1100 | A3 | OCT '03 | 32521 | 0333 | ATP (Amkor, PI) | DK340403AA | SOIC | 3 | 241 | 0 |
| DS1232 | C2-L | JUL '03 | 31904 | 0327 | ATP (Amkor, PI) | DK343027AA | SOIC | 3 | 241 | 0 |
| DS1233 | A5-5 | JUL '03 | 31911 | 0326 | Hana | DU338107AK | SOT223 | 3 | 241 | 0 |
| DS1267 | A1-5 | APR '03 | 31314 | 0309 | ATP (Amkor, PI) | DK236020AFA | TSSOP | 3 | 241 | 0 |
| DS1267 | A1-5 | OCT '03 | 32760 | 0340 | ATP (Amkor, PI) | DK230310AC | TSSOP | 3 | 241 | 0 |
| DS1620 | D1 | OCT '03 | 32502 | 0334 | Hana | DU110113AA | SOIC | 3 | 244 | 0 |
| DS1621 | A7 | JUN '03 | 31727 | 0247 | ATP (Amkor, PI) | DK104614AA | SOIC | 3 | 241 | 0 |
| DS1621 | A7 | SEP '03 | 32321 | 0326 | OSEP | DE319631AAB | SOIC | 3 | 241 | 0 |
| DS1803 | A2- | OCT '02 | 30227 | 0234 | ATP (Amkor, PI) | DK236047AA | SOIC | 3 | 241 | 0 |
| DS1803 | A2- | APR '03 | 31259 | 0304 | OSEP | DE322628AAB | SOIC | 3 | 241 | 0 |
| DS2118M | C1-6 | JUN '03 | 31735 | 0303 | Carsem | DM316629AB | SSOP | 3 | 238 | 0 |
| DS21352 | A4 | FEB '03 | 31027 | 0242 | ATP (Amkor, PI) | DK036653AA | LQFP | 3 | 241 | 0 |
| DS21352 | A4 | MAY '03 | 31399 | 0312 | Stats | DC043465AA | LQFP | 3 | 241 | 0 |
| DS21Q43 | A3- | FEB '03 | 30956 | 0305 | ATK (Amkor, K) | DN039537AA | LQFP | 3 | 241 | 0 |
| DS2502 | C4 | JUL '03 | 31933 | 0327 | OSEP | DE328634AFB | TSOC | 3 | 151 | 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 |
| DS1100 | A3 | JUL '03 | 31901 | 0323 | NSEB | DJ330003ACC | SOIC | 500 | 77 | 0 | |
| DS1100 | A3 | JUL '03 | 31901 | 0323 | NSEB | DJ330003ACC | SOIC | 1000 | 77 | 0 | |
| DS1267 | A1-5 | APR '03 | 31318 | 0309 | ATP (Amkor, PI) | DK236020AFA | TSSOP | 500 | 77 | 0 | |
| DS1267 | A1-5 | APR '03 | 31318 | 0309 | ATP (Amkor, PI) | DK236020AFA | TSSOP | 1000 | 77 | 0 | |
| DS1267 | A1-5 | OCT '03 | 32764 | 0340 | ATP (Amkor, PI) | DK230310AC | TSSOP | 500 | 77 | 0 | |
| DS12887 | A2- | JUL '03 | 31924 | 0318 | Fastech | 335549 | Module w/Bent Fra | 500 | 100 | 0 | |
| DS12887 | A2- | JUL '03 | 31924 | 0318 | Fastech | 335549 | Module w/Bent Fra | 1000 | 99 | 0 | |
| DS12887 | A2- | OCT '03 | 32530 | 0323 | Fastech | MA336140AA | Module w/Bent Fra | 500 | 100 | 0 | |
| DS12887 | A2- | OCT '03 | 32530 | 0323 | Fastech | MA336140AA | Module w/Bent Fra | 1000 | 100 | 0 | |
| DS1620 | D1 | OCT '03 | 32506 | 0334 | Hana | DU110113AA | SOIC | 500 | 70 | 0 | |
| DS1621 | A7 | JUN '03 | 31731 | 0247 | ATP (Amkor, PI) | DK104614AA | SOIC | 500 | 70 | 0 | |
| DS1621 | A7 | JUN '03 | 31731 | 0247 | ATP (Amkor, PI) | DK104614AA | SOIC | 1000 | 70 | 0 | |
| DS1621 | A7 | SEP '03 | 32325 | 0326 | OSEP | DE319631AAB | SOIC | 500 | 70 | 0 | |
| DS1621 | A7 | SEP '03 | 32325 | 0326 | OSEP | DE319631AAB | SOIC | 1000 | 70 | 0 | |
| DS1803 | A2- | OCT '02 | 30231 | 0234 | ATP (Amkor, PI) | DK236047AA | SOIC | 500 | 77 | 0 | |
| DS1803 | A2- | APR '03 | 31263 | 0304 | OSEP | DE322628AAB | SOIC | 500 | 77 | 0 | |
| DS1803 | A2- | APR '03 | 31263 | 0304 | OSEP | DE322628AAB | SOIC | 1000 | 77 | 0 | |
| DS80C320 | C5 | SEP '03 | 32415 | 0323 | ATEC | DQ338181AA | PDIP | 500 | 77 | 0 | |
| DS80C320 | C5 | SEP '03 | 32415 | 0323 | ATEC | DQ338181AA | PDIP | 1000 | 77 | 0 | |

RELIABILITY MONITOR

STRESS: AUTOCLAVE

CONDITIONS: 121C, 2 ATM STEAM, UNBIASED

| PRODUCT | REV | MONITOR DATE | JOB NO | DATE CODE | ASSEMBLY FACILITY | LOT NO. | PACKAGE | READ POINT | QTY | FAIL |
|----------|------|-----------------|--------|--------------|----------------------|-------------|---------|---------------|-----|------|
| DS1100 | A3 | JUL '03 | 31902 | 0323 | NSEB | DJ330003ACC | SOIC | 168 | 40 | 0 |
| DS1232 | C2-L | JUL '03 | 31909 | 0327 | ATP (Amkor, PI) | DK343027AA | SOIC | 168 | 40 | 0 |
| DS1233 | A5-5 | JUL '03 | 31916 | 0326 | Hana | DU338107AK | SOT223 | 168 | 40 | 0 |
| DS1267 | A1-5 | APR '03 | 31319 | 0309 | ATP (Amkor, PI) | DK236020AFA | TSSOP | 168 | 40 | 0 |
| DS1267 | A1-5 | OCT '03 | 32765 | 0340 | ATP (Amkor, PI) | DK230310AC | TSSOP | 168 | 40 | 0 |
| DS1803 | A2- | OCT '02 | 30232 | 0234 | ATP (Amkor, PI) | DK236047AA | SOIC | 168 | 40 | 0 |
| DS1803 | A2- | APR '03 | 31264 | 0304 | OSEP | DE322628AAB | SOIC | 168 | 40 | 0 |
| DS2118M | C1-6 | JUN '03 | 31739 | 0303 | Carsem | DM316629AB | SSOP | 168 | 77 | 0 |
| DS2118M | C1-6 | SEP '03 | 32422 | 0309 | ATK (Amkor, K) | DN319658AA | SSOP | 168 | 77 | 0 |
| DS2401 | C2 | AUG '03 | 32240 | 0331 | Hana | DU342603AB | TO92 | 168 | 45 | 0 |
| DS2502 | C4 | JUL '03 | 31936 | 0327 | OSEP | DE328634AFB | TSOC | 168 | 70 | 0 |
| DS80C320 | C5 | SEP '03 | 32416 | 0323 | ATEC | DQ338181AA | PDIP | 96 | 45 | 0 |

RELIABILITY MONITOR

STRESS: 0 HR TEST

CONDITIONS: Connect Cap & Base

| PRODUCT | REV | MONITOR | DATE | JOB NO | ASSEMBLY | LOT NO. | PACKAGE | READ | POINT | QTY | FAIL |
|---------|-----|----------|-------|--------|----------|---------|-------------------|------|-------|-----|------|
| | | DATE | | CODE | FACILITY | | | | | | |
| DS3832 | B-C | + DS3802 | 31657 | 0318 | Dallas | 315975 | BGA Module, 1 Sid | 1 | 24 | 0 | |