

RELIABILITY MONITOR

DS1232L APR '99 MONITOR-CHIPPAC,KOREA

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|-----------------|
| DS1232L | C2 | 9848 | DL829603AAC | 8 | SOIC | 150 | CPK (ChipPac, K |
| PROCESS Single Poly, Single Metal 0.8 μm Standard Process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
Stress Ambient Temperature and Voltage to
Field Ambient Temperature And Voltage

| | |
|--------------------------------------|--|
| Cf: <input type="text" value="60%"/> | Tuse: <input type="text" value="55 °C"/> |
| Ea: <input type="text" value="0.7"/> | Vuse: <input type="text" value="5.5 Volts"/> |
| β: <input type="text" value="1"/> | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|----------------------|-------|-------------|
| 24189 | INFANT LIFE | 125C, 7.0 VOLTS | 230 | 48 | HOUR | 0 |
| 24190 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 77 | 336 | HOUR | 0 |
| | | 125C, 7.0 VOLTS | 76 | 1000 | HOUR | 0 |
| | | TOTAL: | 30 | DEVICE HRS: 3.05E+07 | | 0 |
| 23660 | ULTRASOUND | J-STD-020 | 0 | 1 | DAYS | 0 |
| | | TOTAL: | | | | |
| 23661 | STORAGE LIFE | 125C | 238 | 24 | HOUR | 0 |
| | MOISTURE SOAK | 85C/85% R.H. | 238 | 168 | HOUR | 0 |
| | CONVECTION REFLOW | 235C | 238 | 3 | PASS | 0 |
| | | TOTAL: | | | | 0 |
| 24191 | TEMP CYCLE | -55C TO 125C | 39 | 300 | CYCL | 0 |
| | | | 39 | 1000 | CYCL | 0 |
| | | TOTAL: | | | | 0 |
| 24192 | HAST | 130C, 85%R.H.,5.5V | 77 | 100 | HOUR | 0 |
| | | TOTAL: | | | | 0 |
| 24193 | AUTOCLAVE | 121C STEAM, UNBIASED | 36 | 96 | HOUR | 0 |
| | | TOTAL: | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1233Z-10 OCT '99 MONITOR

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|---------------|
| DS1233 | A5 | 9932 | DM924344ACA | 3 | SOT223 | 140 | Carsem |
| PROCESS Single Poly, Single Metal 1.2 μm Zero tempco poly | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|----------------------------------|-------|--|
| Cf: | <input type="text" value="60%"/> | Tuse: | <input type="text" value="55 °C"/> |
| Ea: | <input type="text" value="0.7"/> | Vuse: | <input type="text" value="5.5 Volts"/> |
| β: | <input type="text" value="1"/> | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|--|-------|-------------|
| 24566 | INFANT LIFE | 125C, 7.0 VOLTS | 229 | 48 | HOUR | 0 |
| 24567 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 77 | 336 | HOUR | 0 |
| TOTAL: | | | 71 | FAIL RATE (Fits): DEVICE HRS: 1.29E+07 | | 0 |
| 24563 | ULTRASOUND | J-STD-020 | 4 | 1 | DAYS | 0 |
| TOTAL: | | | | | | 0 |
| 24564 | STORAGE LIFE | 125C | 233 | 24 | HOUR | |
| | MOISTURE SOAK | 85C/85% R.H. | 233 | 168 | HOUR | |
| | CONVECTION REFLOW | 235C | 233 | 3 | PASS | 0 |
| TOTAL: | | | | | | 0 |
| 24569 | HAST | 130C, 85%R.H.,5.5V | 71 | 100 | HOUR | 0 |
| TOTAL: | | | | | | 0 |
| 24570 | AUTOCLAVE | 121C STEAM, UNBIASED | 40 | 96 | HOUR | 0 |
| TOTAL: | | | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1267-10 AUG '99 MONITOR - ANAM,PI

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|--------------|------|---------|-------|----------------|
| DS1267 | A1 | 9823 | DK807766AAE- | 20 | TSSOP | 170 | ATP (Anam, PI) |
| PROCESS Single Poly, Single Metal 1.2 μ m Poly1 Resistor | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
Stress Ambient Temperature and Voltage to
Field Ambient Temperature And Voltage

| | | | |
|-----------|-----|-------|-----------|
| Cf: | 60% | Tuse: | 55 °C |
| Ea: | 0.7 | Vuse: | 5.5 Volts |
| β : | 1 | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|----------------------|-------|-------------|
| 24343 | INFANT LIFE | 125C, 6.0 V, -4.0V | 228 | 48 | HOUR | 0 |
| | | TOTAL: | 651 | DEVICE HRS: 1.41E+06 | | 0 |
| 24340 | ULTRASOUND | J-STD-020 | 4 | 1 | DAYS | 0 |
| | | TOTAL: | | | | 0 |
| 24341 | STORAGE LIFE | 125C | 238 | 24 | HOUR | |
| | MOISTURE SOAK | 85C/85% R.H. | 238 | 168 | HOUR | |
| | CONVECTION REFLOW | 235C | 232 | 3 | PASS | 0 |
| | | TOTAL: | | | | 0 |
| 24347 | AUTOCLAVE | 121C STEAM, UNBIASED | 34 | 96 | HOUR | 0 |
| | | TOTAL: | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1267-010 FEB '99 MONITOR - ANAM,PI

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|----------------|
| DS1267 | A1 | 9823 | DK807766AAH | 20 | TSSOP | 170 | ATP (Anam, PI) |
| PROCESS Single Poly, Single Metal 1.2 µm Poly1 Resistor | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
Stress Ambient Temperature and Voltage to
Field Ambient Temperature And Voltage

| | |
|---|---|
| Cf: <input style="width: 50px;" type="text" value="60%"/> | Tuse: <input style="width: 50px;" type="text" value="55 °C"/> |
| Ea: <input style="width: 50px;" type="text" value="0.7"/> | Vuse: <input style="width: 50px;" type="text" value="5.5 Volts"/> |
| β: <input style="width: 50px;" type="text" value="1"/> | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|----------------------|-------|-------------|
| 24044 | INFANT LIFE | 125C, 6.0 V, -4.0V | 227 | 48 | HOUR | 0 |
| 24132 | HIGH VOLTAGE LIFE | 125C, 6.0 V, -4.0V | 77 | 336 | HOUR | 0 |
| | | 125C, 6.0 V, -4.0V | 77 | 664 | HOUR | 0 |
| TOTAL: | | | 81 | DEVICE HRS: 1.13E+07 | | 0 |
| 23262 | ULTRASOUND | J-STD-020 | 4 | 1 | DAYS | 0 |
| TOTAL: | | | | | | 0 |
| 23263 | STORAGE LIFE | 125C | 238 | 24 | HOUR | 0 |
| | MOISTURE SOAK | 85C/85% R.H. | 238 | 168 | HOUR | 0 |
| | SOLDER HEAT | HTC VAPOR PHASE | 233 | 3 | PASS | 0 |
| TOTAL: | | | | | | 0 |
| 24043 | PRECONDITION U/S | J-STD-020 | 4 | 2 | DAYS | 0 |
| TOTAL: | | | | | | 0 |
| 24133 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| | | | 40 | 700 | CYCL | 0 |
| TOTAL: | | | | | | 0 |
| 24134 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 75 | 274 | HOUR | 0 |
| TOTAL: | | | | | | 0 |
| 24135 | AUTOCLAVE | 121C STEAM, UNBIASED | 33 | 96 | HOUR | 0 |
| TOTAL: | | | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1302 MAR '99 MONITOR - ANAM-PI

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--------|----------|-----------|-------------|------|---------|-------|----------------|
| DS1302 | A3 | 9838 | DK818104ADA | 8 | DIP | 300 | ATP (Anam, PI) |

PROCESS Single Poly, Double Metal 0.8 μm Standard Process

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|----------------------------------|-------|--|
| Cf: | <input type="text" value="60%"/> | Tuse: | <input type="text" value="55 °C"/> |
| Ea: | <input type="text" value="0.7"/> | Vuse: | <input type="text" value="5.5 Volts"/> |
| β: | <input type="text" value="1"/> | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|---------------|-------------|-----------------|--------------------------|-----------|-----------------------------|-------------|
| 23359 | INFANT LIFE | 125C, 6.0 VOLTS | 234 | 48 | HOUR | |
| TOTAL: | | | FAIL RATE (Fits): | | DEVICE HRS: 1.44E+06 | |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1302 JUN '99 MONITOR-ANAM,PI

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|----------------|
| DS1302 | A3 | 9905 | DK824165AAA | 8 | DIP | 300 | ATP (Anam, PI) |
| PROCESS Single Poly, Double Metal 0.8 μm Standard Process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
Stress Ambient Temperature and Voltage to
Field Ambient Temperature And Voltage

| | | | |
|-----|-----|-------|-----------|
| Cf: | 60% | Tuse: | 55 °C |
| Ea: | 0.7 | Vuse: | 5.5 Volts |
| β: | 1 | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|-----------------------------|----------|----------------------|-------|-------------|
| 23938 | INFANT LIFE | 125C, 6.0 VOLTS | 230 | 48 | HOUR | 0 |
| 24513 | HIGH VOLTAGE LIFE | 125C, 6.0 VOLTS | 75 | 336 | HOUR | 0 |
| | | 125C, 6.0 VOLTS | 75 | 1000 | HOUR | 0 |
| | | TOTAL: | 83 | DEVICE HRS: 1.11E+07 | | 0 |
| 24514 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| | | TOTAL: | | | | 0 |
| 24515 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 75 | 274 | HOUR | 0 |
| | | | 75 | 959 | HOUR | 0 |
| | | TOTAL: | | | | 0 |
| 24516 | AUTOCLAVE | 121C, 2 ATM STEAM, UNBIASED | 36 | 96 | HOUR | 0 |
| | | TOTAL: | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1621S JUN '99 MONITOR - ANAM,PI

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|----------------|
| DS1621 | A7 | 9915 | DK815282AAB | 8 | SOIC | 150 | ATP (Anam, PI) |
| PROCESS Single Poly, Single Metal 0.8 μm E2PROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|----------------------------------|-------|--|
| Cf: | <input type="text" value="60%"/> | Tuse: | <input type="text" value="55 °C"/> |
| Ea: | <input type="text" value="0.7"/> | Vuse: | <input type="text" value="5.5 Volts"/> |
| β: | <input type="text" value="1"/> | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|--------------------|-------------------|-------------------|----------------------|-------|-------------|
| 24321 | INFANT LIFE | 125C, 7.0 VOLTS | 234 | 48 | HOUR | 0 |
| 24322 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 77 | 336 | HOUR | 0 |
| | | 125C, 7.0 VOLTS | 77 | 1000 | HOUR | 0 |
| TOTAL: | | | 30 | DEVICE HRS: 3.08E+07 | | 0 |
| 24315 | STORAGE LIFE | 125C | 241 | 24 | HOUR | |
| | MOISTURE SOAK | 85C/85% R.H. | 241 | 168 | HOUR | |
| | CONVECTION REFLOW | 235C | 241 | 3 | PASS | 0 |
| TOTAL: | | | | | | 0 |
| 24323 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| | | | 40 | 1000 | CYCL | 0 |
| TOTAL: | | | | | | 0 |
| 24324 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 69 | 274 | HOUR | 0 |
| | | | 69 | 959 | HOUR | 0 |
| TOTAL: | | | | | | 0 |
| 24325 | WRITE CYCLE STRESS | 85 C, 7.0 VOLTS | 45 | 50 | KCYC | 0 |
| TOTAL: | | | | | | 0 |
| 24326 | STORAGE LIFE | 150C | 44 | 336 | HOUR | 1 |
| TOTAL: | | | | | | 1 |
| JOB NO | FAILURE MODE | FAILURE MECHANISM | CORRECTIVE ACTION | | | |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1621S JUN '99 MONITOR - ANAM,PI

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|----------------|
| DS1621 | A7 | 9915 | DK815282AAB | 8 | SOIC | 150 | ATP (Anam, PI) |
| PROCESS Single Poly, Single Metal 0.8 μm E2PROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|----------------------------------|-------|--|
| Cf: | <input type="text" value="60%"/> | Tuse: | <input type="text" value="55 °C"/> |
| Ea: | <input type="text" value="0.7"/> | Vuse: | <input type="text" value="5.5 Volts"/> |
| β: | <input type="text" value="1"/> | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|----------------|-----------------|----------|-----------|-------|-------------|
| 24326 | DATA RETENTION | IN VERIFICATION | | | | NA |

Empty "No of Fails" TOTAL implies that Material is still in stess

RELIABILITY MONITOR

DS1621 SEP '99 MONITOR - ANAM, PI

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|----------------|
| DS1621 | A7 | 9930 | DK906731AAC | 8 | SOIC | 150 | ATP (Anam, PI) |
| PROCESS Single Poly, Single Metal 0.8 μm E2PROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
Stress Ambient Temperature and Voltage to
Field Ambient Temperature And Voltage

| | |
|--------------------------------------|--|
| Cf: <input type="text" value="60%"/> | Tuse: <input type="text" value="55 °C"/> |
| Ea: <input type="text" value="0.7"/> | Vuse: <input type="text" value="5.5 Volts"/> |
| β: <input type="text" value="1"/> | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|--------------------|------------------|----------|--|-------|-------------|
| 24462 | INFANT LIFE | 125C, 7.0 VOLTS | 225 | 48 | HOUR | 0 |
| 24463 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 77 | 336 | HOUR | 0 |
| | | 125C, 7.0 VOLTS | 77 | 1000 | HOUR | 0 |
| | | TOTAL: | 30 | FAIL RATE (Fits): DEVICE HRS: 3.07E+07 | | 0 |
| 24460 | STORAGE LIFE | 125C | 241 | 24 | HOUR | |
| | MOISTURE SOAK | 85C/85% R.H. | 241 | 168 | HOUR | |
| | CONVECTION REFLOW | 235C | 240 | 3 | PASS | 0 |
| | | TOTAL: | | | | 0 |
| 24464 | TEMP CYCLE | -55C TO 125C | 36 | 300 | CYCL | 0 |
| | | TOTAL: | | | | 0 |
| 24465 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 63 | 274 | HOUR | 0 |
| | | TOTAL: | | | | 0 |
| 24466 | WRITE CYCLE STRESS | 85 C, 7.0 VOLTS | 39 | 50 | KCYC | 6 |
| | | TOTAL: | | | | 6 |
| 24467 | STORAGE LIFE | 150C | 39 | 336 | HOUR | 0 |
| | | TOTAL: | | | | 0 |

| JOB NO | FAILURE MODE | FAILURE MECHANISM | CORRECTIVE ACTION |
|--------|--------------|----------------------|---|
| 24466 | TI_OSC (4) | WRITE CYCLE WEAR OUT | DESIGN ENHANCEMENTS: HV REGULATION, TERMINATION SCHEMES, |

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RELIABILITY MONITOR

DS1621 SEP '99 MONITOR - ANAM, PI

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|----------------|
| DS1621 | A7 | 9930 | DK906731AAC | 8 | SOIC | 150 | ATP (Anam, PI) |
| PROCESS Single Poly, Single Metal 0.8 μm E2PROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|----------------------------------|-------|--|
| Cf: | <input type="text" value="60%"/> | Tuse: | <input type="text" value="55 °C"/> |
| Ea: | <input type="text" value="0.7"/> | Vuse: | <input type="text" value="5.5 Volts"/> |
| β: | <input type="text" value="1"/> | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|----------|----------------------|----------|---|-------|-------------|
| 24466 | IOL (2) | WRITE CYCLE WEAR OUT | | | | |
| | | | | V RAMP, TUNNEL OXIDE CONTROL DESIGN ENHANCEMENTS: HV REGULATION, TERMINATION SCHEMES, V RAMP, TUNNEL OXIDE CONTROL | | |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS17485 AUG '99 MONITOR,D.P-ANAM,PI.

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|----------------|
| DS174855 | A4 | 9906 | DK838211AAF | 24 | SOIC | 300 | ATP (Anam, PI) |
| PROCESS Single Poly, Double Metal 0.8 μm Standard Process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
Stress Ambient Temperature and Voltage to
Field Ambient Temperature And Voltage

| | | | |
|-----|----------------------------------|-------|--|
| Cf: | <input type="text" value="60%"/> | Tuse: | <input type="text" value="55 °C"/> |
| Ea: | <input type="text" value="0.7"/> | Vuse: | <input type="text" value="5.5 Volts"/> |
| β: | <input type="text" value="1"/> | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|-----------------|-------------------|-----------|----------------------|-------------|
| 24362 | INFANT LIFE | 125C, 7.0 VOLTS | 231 | 48 | HOUR | |
| TOTAL: | | | FAIL RATE (Fits): | | DEVICE HRS: 3.87E+06 | |
| 24359 | ULTRASOUND | J-STD-020 | 4 | 1 | DAYS | 0 |
| TOTAL: | | | 0 | | | |
| 24360 | STORAGE LIFE | 125C | 237 | 24 | HOUR | |
| | MOISTURE SOAK | 30C/60% R.H. | 237 | 144 | HOUR | |
| | CONVECTION REFLOW | 235C | 235 | 3 | PASS | 0 |
| TOTAL: | | | 0 | | | |
| 24361 | PRECONDITION U/S | J-STD-020 | 4 | 2 | DAYS | 0 |
| TOTAL: | | | 0 | | | |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1803-010 NOV '98 MONITOR - HYUNDAI,K.

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|-----------------|
| DS1803 | A2 | 9833 | DL820412AAB | 16 | SOIC | 150 | CPK (ChipPac, K |
| PROCESS Single Poly, Double Metal 0.8 μm Standard Process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
Stress Ambient Temperature and Voltage to
Field Ambient Temperature And Voltage

| | |
|--------------------------------------|--|
| Cf: <input type="text" value="60%"/> | Tuse: <input type="text" value="55 °C"/> |
| Ea: <input type="text" value="0.7"/> | Vuse: <input type="text" value="5.5 Volts"/> |
| β: <input type="text" value="1"/> | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|-----------|---|-------------|
| 23173 | INFANT LIFE | 125C, 7.0 VOLTS | 234 | 48 | HOUR | 0 |
| 23923 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 77 | 336 | HOUR | 0 |
| | | 125C, 7.0 VOLTS | 77 | 1000 | HOUR | 0 |
| | | TOTAL: | | | FAIL RATE (Fits): 30 DEVICE HRS: 3.08E+07 | 0 |
| 22797 | ULTRASOUND | J-STD-020 | 4 | 1 | DAYS | 0 |
| | | TOTAL: | | | | 0 |
| 22798 | STORAGE LIFE | 125C | 238 | 24 | HOUR | 0 |
| | MOISTURE SOAK | 85C/85% R.H. | 238 | 168 | HOUR | 0 |
| | SOLDER HEAT | HTC VAPOR PHASE | 238 | 3 | PASS | 0 |
| | | TOTAL: | | | | 0 |
| 23172 | PRECONDITION U/S | J-STD-020 | 4 | 1 | DAYS | 0 |
| | | TOTAL: | | | | 0 |
| 23924 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| | | | 40 | 1000 | CYCL | 0 |
| | | TOTAL: | | | | 0 |
| 23925 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 77 | 274 | HOUR | 0 |
| | | TOTAL: | | | | 0 |
| 23926 | AUTOCLAVE | 121C STEAM, UNBIASED | 40 | 96 | HOUR | 0 |
| | | TOTAL: | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1803-010 FEB '99 MONITOR - HYUNDAI,K.

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|-----------------|
| DS1803 | A2 | 9835 | DL818111AAB | 16 | SOIC | 150 | CPK (ChipPac, K |
| PROCESS Single Poly, Double Metal 0.8 μm Standard Process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
Stress Ambient Temperature and Voltage to
Field Ambient Temperature And Voltage

| | |
|--------------------------------------|--|
| Cf: <input type="text" value="60%"/> | Tuse: <input type="text" value="55 °C"/> |
| Ea: <input type="text" value="0.7"/> | Vuse: <input type="text" value="5.5 Volts"/> |
| β: <input type="text" value="1"/> | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|----------------------|-------|-------------|
| 23928 | INFANT LIFE | 125C, 7.0 VOLTS | 232 | 48 | HOUR | 0 |
| 24003 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 76 | 336 | HOUR | 1 |
| | | 125C, 7.0 VOLTS | 76 | 1000 | HOUR | 0 |
| TOTAL: | | | 66 | DEVICE HRS: 3.04E+07 | | 1 |
| 23274 | ULTRASOUND | J-STD-020 | 0 | 1 | DAYS | |
| TOTAL: | | | | | | |
| 23275 | STORAGE LIFE | 125C | 238 | 24 | HOUR | |
| | MOISTURE SOAK | 85C/85% R.H. | 238 | 168 | HOUR | |
| | SOLDER HEAT | HTC VAPOR PHASE | 238 | 3 | PASS | 0 |
| TOTAL: | | | | | | 0 |
| 23927 | PRECONDITION U/S | J-STD-020 | 0 | 2 | DAYS | |
| TOTAL: | | | | | | |
| 24004 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| | | | 40 | 1000 | CYCL | 0 |
| TOTAL: | | | | | | 0 |
| 24005 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 0 | 274 | HOUR | |
| TOTAL: | | | | | | |
| 24006 | AUTOCLAVE | 121C STEAM, UNBIASED | 36 | 96 | HOUR | 2 |
| TOTAL: | | | | | | 2 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1803-010 FEB '99 MONITOR - HYUNDAI,K.

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|-----------------|
| DS1803 | A2 | 9835 | DL818111AAB | 16 | SOIC | 150 | CPK (ChipPac, K |
| PROCESS Single Poly, Double Metal 0.8 μm Standard Process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|----------------------------------|-------|--|
| Cf: | <input type="text" value="60%"/> | Tuse: | <input type="text" value="55 °C"/> |
| Ea: | <input type="text" value="0.7"/> | Vuse: | <input type="text" value="5.5 Volts"/> |
| β: | <input type="text" value="1"/> | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|---------------|---------------------|--------------------------|--------------------------|-----------|-------|-------------|
| JOB NO | FAILURE MODE | FAILURE MECHANISM | CORRECTIVE ACTION | | | |
| 24003 | CONTINUITY | IN PROCESS | IN PROCESS | | | |
| 24006 | CONTINUITY | IN PROCESS | IN PROCESS | | | |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1803-010 AUG '99 MONITOR -ANAM,PI.

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|----------------|
| DS1803 | A2 | 9909 | DK830515AAB | 16 | SOIC | 150 | ATP (Anam, PI) |
| PROCESS Single Poly, Double Metal 0.8 μm Standard Process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
Stress Ambient Temperature and Voltage to
Field Ambient Temperature And Voltage

| | |
|---|---|
| Cf: <input style="width: 50px;" type="text" value="60%"/> | Tuse: <input style="width: 50px;" type="text" value="55 °C"/> |
| Ea: <input style="width: 50px;" type="text" value="0.7"/> | Vuse: <input style="width: 50px;" type="text" value="5.5 Volts"/> |
| β: <input style="width: 50px;" type="text" value="1"/> | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|----------------------|-------|-------------|
| 24370 | INFANT LIFE | 125C, 7.0 VOLTS | 234 | 48 | HOUR | 0 |
| 24371 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 77 | 336 | HOUR | 0 |
| TOTAL: | | | 71 | DEVICE HRS: 1.30E+07 | | 0 |
| 24368 | STORAGE LIFE | 125C | 238 | 24 | HOUR | |
| | MOISTURE SOAK | 85C/85% R.H. | 238 | 168 | HOUR | |
| | CONVECTION REFLOW | 235C | 238 | 3 | PASS | 0 |
| TOTAL: | | | | | | 0 |
| 24374 | AUTOCLAVE | 121C STEAM, UNBIASED | 38 | 96 | HOUR | |
| TOTAL: | | | | | | |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1803-010 NOV '99 MONITOR

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|----------------|
| DS1803 | A2 | 9923 | DK913631AAA | 16 | SOIC | 150 | ATP (Anam, PI) |
| PROCESS Single Poly, Double Metal 0.8 μm Standard Process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|----------------------------------|-------|--|
| Cf: | <input type="text" value="60%"/> | Tuse: | <input type="text" value="55 °C"/> |
| Ea: | <input type="text" value="0.7"/> | Vuse: | <input type="text" value="5.5 Volts"/> |
| β: | <input type="text" value="1"/> | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|-----------------|----------|----------------------|-------|-------------|
| 24738 | INFANT LIFE | 125C, 7.0 VOLTS | 224 | 48 | HOUR | 0 |
| | | TOTAL: | 244 | DEVICE HRS: 3.76E+06 | | 0 |
| 24736 | STORAGE LIFE | 125C | 238 | 24 | HOUR | |
| | MOISTURE SOAK | 85C/85% R.H. | 238 | 168 | HOUR | |
| | CONVECTION REFLOW | 235C | 228 | 3 | PASS | 0 |
| | | TOTAL: | | | | 0 |
| 24737 | PRECONDITION U/S | J-STD-020 | 4 | 2 | DAYS | 0 |
| | | TOTAL: | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1869 DEC '98 MONITOR-NSEB

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|---------------|
| DS1869 | A3 | 9829 | DJ821533ABB | 8 | SOIC | 208 | NSEB |
| PROCESS Single Poly, Single Metal 1.2 μm E2PROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

Cf: Tuse:
 Ea: Vuse:
 β:

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|------------------|-----------------|-------------------|-----------|----------------------|-------------|
| 23024 | INFANT LIFE | 125C, 7.0 VOLTS | 236 | 48 | HOUR | |
| TOTAL: | | | FAIL RATE (Fits): | | DEVICE HRS: 3.96E+06 | |
| 22899 | ULTRASOUND | J-STD-020 | 4 | 1 | DAYS | 0 |
| TOTAL: | | | 0 | | | |
| 22900 | STORAGE LIFE | 125C | 241 | 24 | HOUR | |
| | MOISTURE SOAK | 85C/85% R.H. | 241 | 168 | HOUR | |
| | SOLDER HEAT | HTC VAPOR PHASE | 240 | 3 | PASS | 0 |
| TOTAL: | | | 0 | | | |
| 23023 | PRECONDITION U/S | J-STD-020 | 4 | 1 | DAYS | 0 |
| TOTAL: | | | 0 | | | |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1869S MAR '99 MONITOR - NSEB

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|---------------|
| DS1869 | A3 | 9829 | DJ821534ABB | 8 | SOIC | 208 | NSEB |
| PROCESS Single Poly, Single Metal 1.2 μm E2PROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

Cf: Tuse:
 Ea: Vuse:
 β:

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|--------------------|------------------|----------|----------------------|-------|-------------|
| 23440 | INFANT LIFE | 125C, 7.0 VOLTS | 237 | 48 | HOUR | 0 |
| 24022 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 76 | 336 | HOUR | 0 |
| | | 125C, 7.0 VOLTS | 76 | 1000 | HOUR | 0 |
| | | TOTAL: | 30 | DEVICE HRS: 3.05E+07 | | 0 |
| 23360 | ULTRASOUND | J-STD-020 | 4 | 1 | DAYS | 0 |
| | | TOTAL: | | | | 0 |
| 23361 | STORAGE LIFE | 125C | 241 | 24 | HOUR | 0 |
| | MOISTURE SOAK | 85C/85% R.H. | 241 | 168 | HOUR | 0 |
| | SOLDER HEAT | HTC VAPOR PHASE | 241 | 3 | PASS | 0 |
| | | TOTAL: | | | | 0 |
| 23439 | PRECONDITION U/S | J-STD-020 | 4 | 1 | DAYS | 0 |
| | | TOTAL: | | | | 0 |
| 24023 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| | | | 40 | 1000 | CYCL | 0 |
| | | TOTAL: | | | | 0 |
| 24024 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 70 | 274 | HOUR | 0 |
| | | | 65 | 959 | HOUR | 0 |
| | | TOTAL: | | | | 0 |
| 24025 | WRITE CYCLE STRESS | 85 C, 7.0 VOLTS | 50 | 25 | KCYC | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1869S MAR '99 MONITOR - NSEB

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|---------------|
| DS1869 | A3 | 9829 | DJ821534ABB | 8 | SOIC | 208 | NSEB |
| PROCESS Single Poly, Single Metal 1.2 μ m E2PROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----------|-----|-------|-----------|
| Cf: | 60% | Tuse: | 55 °C |
| Ea: | 0.7 | Vuse: | 5.5 Volts |
| β : | 1 | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|--------------|-----------|----------|-----------|-------|-------------|
| | | TOTAL: | | | | 0 |
| 24288 | STORAGE LIFE | 150C | 46 | 336 | HOUR | 0 |
| | | | 45 | 1000 | HOUR | 0 |
| | | TOTAL: | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1869 JUN '99 MONITOR - NSEB

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|---------------|
| DS1869 | A3 | 9836 | DJ824252AAC | 8 | SOIC | 208 | NSEB |
| PROCESS Single Poly, Single Metal 1.2 μm E2PROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|----------------------------------|-------|--|
| Cf: | <input type="text" value="60%"/> | Tuse: | <input type="text" value="55 °C"/> |
| Ea: | <input type="text" value="0.7"/> | Vuse: | <input type="text" value="5.5 Volts"/> |
| β: | <input type="text" value="1"/> | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|--------------------|------------------|----------|----------------------|-------|-------------|
| 24032 | INFANT LIFE | 125C, 7.0 VOLTS | 230 | 48 | HOUR | 0 |
| 24228 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 70 | 336 | HOUR | 0 |
| | | 125C, 7.0 VOLTS | 66 | 1000 | HOUR | 0 |
| | | TOTAL: | 33 | DEVICE HRS: 2.74E+07 | | 0 |
| 23944 | ULTRASOUND | J-STD-020 | 0 | 2 | DAYS | |
| | | TOTAL: | | | | |
| 23945 | STORAGE LIFE | 125C | 241 | 24 | HOUR | |
| | MOISTURE SOAK | 85C/85% R.H. | 241 | 168 | HOUR | |
| | SOLDER HEAT | HTC VAPOR PHASE | 234 | 3 | PASS | 0 |
| | | TOTAL: | | | | 0 |
| 24031 | PRECONDITION U/S | J-STD-020 | 0 | 2 | DAYS | |
| | | TOTAL: | | | | |
| 24229 | TEMP CYCLE | -55C TO 125C | 39 | 300 | CYCL | 0 |
| | | | 39 | 1000 | CYCL | 0 |
| | | TOTAL: | | | | 0 |
| 24230 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 63 | 274 | HOUR | 0 |
| | | | 61 | 959 | HOUR | 0 |
| | | TOTAL: | | | | 0 |
| 24231 | WRITE CYCLE STRESS | 85 C, 7.0 VOLTS | 50 | 25 | KCYC | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1869 JUN '99 MONITOR - NSEB

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|---------------|
| DS1869 | A3 | 9836 | DJ824252AAC | 8 | SOIC | 208 | NSEB |
| PROCESS Single Poly, Single Metal 1.2 μ m E2PROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----------|-----|-------|-----------|
| Cf: | 60% | Tuse: | 55 °C |
| Ea: | 0.7 | Vuse: | 5.5 Volts |
| β : | 1 | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|--------------|-----------|----------|-----------|-------|-------------|
| | | TOTAL: | | | | 0 |
| 24252 | STORAGE LIFE | 150C | 50 | 336 | HOUR | 0 |
| | | TOTAL: | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS1869 SEP '99 MONITOR - NSEB

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|---------------|
| DS1869 | A3 | 9907 | DJ824247ABA | 8 | SOIC | 208 | NSEB |
| PROCESS Single Poly, Single Metal 1.2 μm E2PROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|----------------------------------|-------|--|
| Cf: | <input type="text" value="60%"/> | Tuse: | <input type="text" value="55 °C"/> |
| Ea: | <input type="text" value="0.7"/> | Vuse: | <input type="text" value="5.5 Volts"/> |
| β: | <input type="text" value="1"/> | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|--------------------|------------------|----------|----------------------------|-------|-------------|
| 24441 | INFANT LIFE | 125C, 7.0 VOLTS | 213 | 48 | HOUR | 0 |
| 24442 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 75 | 336 | HOUR | 0 |
| TOTAL: | | | 74 | FAIL RATE (Fits): 1.24E+07 | | 0 |
| 24439 | STORAGE LIFE | 125C | 241 | 24 | HOUR | |
| | MOISTURE SOAK | 85C/85% R.H. | 241 | 168 | HOUR | |
| | CONVECTION REFLOW | 235C | 235 | 3 | PASS | 0 |
| TOTAL: | | | | | | 0 |
| 24443 | TEMP CYCLE | -55C TO 125C | 35 | 300 | CYCL | 0 |
| TOTAL: | | | | | | 0 |
| 24444 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 53 | 274 | HOUR | 0 |
| TOTAL: | | | | | | 0 |
| 24445 | WRITE CYCLE STRESS | 85 C, 7.0 VOLTS | 46 | 25 | KCYC | 0 |
| TOTAL: | | | | | | 0 |
| 24446 | STORAGE LIFE | 150C | 46 | 336 | HOUR | 0 |
| TOTAL: | | | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2108 AUG '99 MONITOR,D.P-ANAM,PI.

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|----------------|
| DS2108 | B7 | 9922 | DK913650AAF | 24 | SOIC | 300 | ATP (Anam, PI) |
| PROCESS Single Poly, Single Metal 5.0 μm Negative zero tempco poly | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
Stress Ambient Temperature and Voltage to
Field Ambient Temperature And Voltage

| | | | |
|-----|----------------------------------|-------|--|
| Cf: | <input type="text" value="60%"/> | Tuse: | <input type="text" value="55 °C"/> |
| Ea: | <input type="text" value="0.7"/> | Vuse: | <input type="text" value="5.5 Volts"/> |
| β: | <input type="text" value="1"/> | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|----------------------|-------|-------------|
| 24386 | INFANT LIFE | 125C, 6.0 VOLTS | 234 | 48 | HOUR | 0 |
| 24387 | HIGH VOLTAGE LIFE | 125C, 6.0 VOLTS | 77 | 336 | HOUR | 0 |
| | | 125C, 6.0 VOLTS | 77 | 1000 | HOUR | 0 |
| | | TOTAL: | 81 | DEVICE HRS: 1.13E+07 | | 0 |
| 24383 | ULTRASOUND | J-STD-020 | 4 | 1 | DAYS | 0 |
| | | TOTAL: | | | | 0 |
| 24384 | STORAGE LIFE | 125C | 238 | 24 | HOUR | 0 |
| | MOISTURE SOAK | 30C/60% R.H. | 238 | 144 | HOUR | 0 |
| | CONVECTION REFLOW | 235C | 238 | 3 | PASS | 0 |
| | | TOTAL: | | | | 0 |
| 24388 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| | | | 40 | 1000 | CYCL | 0 |
| | | TOTAL: | | | | 0 |
| 24389 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 77 | 274 | HOUR | 0 |
| | | | 77 | 959 | HOUR | 0 |
| | | TOTAL: | | | | 0 |
| 24390 | AUTOCLAVE | 121C STEAM, UNBIASED | 40 | 96 | HOUR | 0 |
| | | TOTAL: | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2109S MAR '99 MONITOR-CARSEM

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|---------------|
| DS2109 | A7 | 9839 | DM812688AAA | 28 | SOIC | 300 | Carsem |
| PROCESS Single Poly, Single Metal 0.8 μm Negative zero tempco poly | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
Stress Ambient Temperature and Voltage to
Field Ambient Temperature And Voltage

| | | | |
|-----|-----|-------|-----------|
| Cf: | 60% | Tuse: | 55 °C |
| Ea: | 0.7 | Vuse: | 5.5 Volts |
| β: | 1 | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|-----------|---|-------------|
| 23723 | INFANT LIFE | 125C, 7.0 VOLTS | 228 | 48 | HOUR | 1 |
| 23832 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 77 | 336 | HOUR | 0 |
| | | 125C, 7.0 VOLTS | 74 | 1000 | HOUR | 0 |
| | | TOTAL: | | | FAIL RATE (Fits): 67 DEVICE HRS: 3.00E+07 | 1 |
| 23363 | ULTRASOUND | J-STD-020 | 0 | 1 | DAYS | |
| | | TOTAL: | | | | |
| 23364 | STORAGE LIFE | 125C | 237 | 24 | HOUR | |
| | MOISTURE SOAK | 85C/85% R.H. | 237 | 168 | HOUR | |
| | CONVECTION REFLOW | 235C | 237 | 3 | PASS | 0 |
| | | TOTAL: | | | | 0 |
| 23722 | PRECONDITION U/S | J-STD-020 | 0 | 1 | DAYS | |
| | | TOTAL: | | | | |
| 23833 | TEMP CYCLE | -55C TO 125C | 50 | 300 | CYCL | 0 |
| | | | 50 | 1000 | CYCL | 0 |
| | | TOTAL: | | | | 0 |
| 23834 | HAST | 130C, 85%R.H.,5.5V | 66 | 100 | HOUR | 0 |
| | | TOTAL: | | | | 0 |
| 23835 | AUTOCLAVE | 121C STEAM, UNBIASED | 31 | 96 | HOUR | 4 |
| | | TOTAL: | | | | 4 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2109S MAR '99 MONITOR-CARSEM

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|---------------|
| DS2109 | A7 | 9839 | DM812688AAA | 28 | SOIC | 300 | Carsem |
| PROCESS Single Poly, Single Metal 0.8 μm Negative zero tempco poly | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|-----|-------|-----------|
| Cf: | 60% | Tuse: | 55 °C |
| Ea: | 0.7 | Vuse: | 5.5 Volts |
| β: | 1 | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|---------------|---------------------|--------------------------|--------------------------|-----------|-------|-------------|
| JOB NO | FAILURE MODE | FAILURE MECHANISM | CORRECTIVE ACTION | | | |
| 23723 | TERM RESISTANCE | IN FA 990219 | IN PROCESS | | | |
| 23835 | CONTINUITY (4) | IN PROCESS | IN PROCESS | | | |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2118M MAR '99 MONITOR,D.P.-ANAM,K.

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|---------------|
| DS2118M | A4 | 9904 | DN844402AAC | 36 | SSOP | 300 | ASI (Anam, K) |
| PROCESS Single Poly, Double Metal 0.8 μm Negative zero tempco poly | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
Stress Ambient Temperature and Voltage to
Field Ambient Temperature And Voltage

| | |
|---|---|
| Cf: <input style="width: 50px;" type="text" value="60%"/> | Tuse: <input style="width: 50px;" type="text" value="55 °C"/> |
| Ea: <input style="width: 50px;" type="text" value="0.7"/> | Vuse: <input style="width: 50px;" type="text" value="5.5 Volts"/> |
| β: <input style="width: 50px;" type="text" value="1"/> | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|----------------------|-------|-------------|
| 23526 | INFANT LIFE | 125C, 6.0 VOLTS | 234 | 48 | HOUR | 0 |
| 23600 | HIGH VOLTAGE LIFE | 125C, 6.0 VOLTS | 77 | 336 | HOUR | 0 |
| | | 125C, 6.0 VOLTS | 76 | 1000 | HOUR | 1 |
| TOTAL: | | | 180 | DEVICE HRS: 1.13E+07 | | 1 |
| 23365 | ULTRASOUND | J-STD-020 | 4 | 1 | DAYS | 0 |
| TOTAL: | | | | | | 0 |
| 23366 | STORAGE LIFE | 125C | 238 | 24 | HOUR | 0 |
| | MOISTURE SOAK | 30C/60% R.H. | 238 | 240 | HOUR | 0 |
| | CONVECTION REFLOW | 235C | 238 | 3 | PASS | 0 |
| TOTAL: | | | | | | 0 |
| 23525 | PRECONDITION U/S | J-STD-020 | 4 | 1 | DAYS | 0 |
| TOTAL: | | | | | | 0 |
| 23601 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| | | | 40 | 1000 | CYCL | 0 |
| TOTAL: | | | | | | 0 |
| 23602 | HAST | 130C, 85%R.H.,5.5V | 76 | 100 | HOUR | 0 |
| TOTAL: | | | | | | 0 |
| 23603 | AUTOCLAVE | 121C STEAM, UNBIASED | 40 | 96 | HOUR | 0 |
| TOTAL: | | | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2118M MAR '99 MONITOR,D.P.-ANAM,K.

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|---------------|
| DS2118M | A4 | 9904 | DN844402AAC | 36 | SSOP | 300 | ASI (Anam, K) |
| PROCESS Single Poly, Double Metal 0.8 μm Negative zero tempco poly | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|----------------------------------|-------|--|
| Cf: | <input type="text" value="60%"/> | Tuse: | <input type="text" value="55 °C"/> |
| Ea: | <input type="text" value="0.7"/> | Vuse: | <input type="text" value="5.5 Volts"/> |
| β: | <input type="text" value="1"/> | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|---------------|---------------------|---|----------|-----------|-------|--|
| JOB NO | FAILURE MODE | FAILURE MECHANISM | | | | |
| 23600 | RDM-LVD | FA 990153 (NOT COMPLETED - GATE OXIDE?) | | | | |
| | | | | | | SEVERAL EVALUATIONS ARE IN PROCESS TO IMPROVE GATE OXIDE PERFORMANCE |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2118M JUN '99 MONITOR,D.P. ANAM,K.

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|---------------|
| DS2118M | A4 | 9912 | DN848138AAA | 36 | SSOP | 300 | ASI (Anam, K) |
| PROCESS Single Poly, Double Metal 0.8 μm Negative zero tempco poly | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
Stress Ambient Temperature and Voltage to
Field Ambient Temperature And Voltage

| | |
|---|---|
| Cf: <input style="width: 50px;" type="text" value="60%"/> | Tuse: <input style="width: 50px;" type="text" value="55 °C"/> |
| Ea: <input style="width: 50px;" type="text" value="0.7"/> | Vuse: <input style="width: 50px;" type="text" value="5.5 Volts"/> |
| β: <input style="width: 50px;" type="text" value="1"/> | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|--|-------|-------------|
| 24038 | INFANT LIFE | 125C, 6.0 VOLTS | 234 | 48 | HOUR | 0 |
| 24070 | HIGH VOLTAGE LIFE | 125C, 6.0 VOLTS | 77 | 336 | HOUR | 0 |
| TOTAL: | | | 194 | FAIL RATE (Fits): DEVICE HRS: 4.72E+06 | | 0 |
| 23949 | ULTRASOUND | J-STD-020 | 4 | 2 | DAYS | 0 |
| TOTAL: | | | | | | 0 |
| 23950 | STORAGE LIFE | 125C | 238 | 24 | HOUR | |
| | MOISTURE SOAK | 30C/60% R.H. | 238 | 240 | HOUR | |
| | CONVECTION REFLOW | 235C | 238 | 3 | PASS | 0 |
| TOTAL: | | | | | | 0 |
| 24037 | PRECONDITION U/S | J-STD-020 | 4 | 2 | DAYS | 0 |
| TOTAL: | | | | | | 0 |
| 24071 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| | | | 40 | 1000 | CYCL | 0 |
| TOTAL: | | | | | | 0 |
| 24072 | HAST | 130C, 85%R.H.,5.5V | 77 | 100 | HOUR | 0 |
| TOTAL: | | | | | | 0 |
| 24073 | AUTOCLAVE | 121C STEAM, UNBIASED | 40 | 96 | HOUR | 0 |
| TOTAL: | | | | | | 0 |

| JOB NO | FAILURE MODE | FAILURE MECHANISM | CORRECTIVE ACTION |
|--------|--------------|-------------------|-------------------|
|--------|--------------|-------------------|-------------------|

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2118M JUN '99 MONITOR,D.P. ANAM,K.

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|---------------|
| DS2118M | A4 | 9912 | DN848138AAA | 36 | SSOP | 300 | ASI (Anam, K) |
| PROCESS Single Poly, Double Metal 0.8 μm Negative zero tempco poly | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|-----|-------|-----------|
| Cf: | 60% | Tuse: | 55 °C |
| Ea: | 0.7 | Vuse: | 5.5 Volts |
| β: | 1 | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|------------|------------|----------|------------|-------|-------------|
| 24070 | CONTINUITY | IN PROCESS | | IN PROCESS | | |

Empty "No of Fails" TOTAL implies that Material is still in stess

RELIABILITY MONITOR

DS2118M SEP '99 MONITOR, D.P. Carsem

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|---------------|
| DS2118M | A4 | 9919 | DM905555AAD | 36 | SSOP | 300 | Carsem |
| PROCESS Single Poly, Double Metal 0.8 μm Negative zero tempco poly | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
Stress Ambient Temperature and Voltage to
Field Ambient Temperature And Voltage

| | | | |
|-----|----------------------------------|-------|--|
| Cf: | <input type="text" value="60%"/> | Tuse: | <input type="text" value="55 °C"/> |
| Ea: | <input type="text" value="0.7"/> | Vuse: | <input type="text" value="5.5 Volts"/> |
| β: | <input type="text" value="1"/> | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|----------------------|-------|-------------|
| 24453 | INFANT LIFE | 125C, 6.0 VOLTS | 231 | 48 | HOUR | 0 |
| 24454 | HIGH VOLTAGE LIFE | 125C, 6.0 VOLTS | 75 | 336 | HOUR | 0 |
| | | 125C, 6.0 VOLTS | 75 | 1000 | HOUR | 0 |
| | | TOTAL: | 83 | DEVICE HRS: 1.11E+07 | | 0 |
| 24450 | ULTRASOUND | J-STD-020 | 4 | 2 | DAYS | 0 |
| | | TOTAL: | | | | 0 |
| 24451 | STORAGE LIFE | 125C | 238 | 24 | HOUR | 0 |
| | MOISTURE SOAK | 30C/60% R.H. | 238 | 240 | HOUR | 0 |
| | CONVECTION REFLOW | 235C | 236 | 3 | PASS | 0 |
| | | TOTAL: | | | | 0 |
| 24455 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| | | | 39 | 1000 | CYCL | 0 |
| | | TOTAL: | | | | 0 |
| 24456 | HAST | 130C, 85%R.H.,5.5V | 77 | 100 | HOUR | 0 |
| | | TOTAL: | | | | 0 |
| 24457 | AUTOCLAVE | 121C STEAM, UNBIASED | 37 | 96 | HOUR | 0 |
| | | TOTAL: | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2154 JUN '99 MONITOR,D.P.-ANAM,K.

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|---------------|
| DS2154 | A2 | 9914 | DN901043AAC | 100 | LQFP | 550 | ASI (Anam, K) |
| PROCESS Double Poly, Double Met 0.8 μm N Depletion Capacitor | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
Stress Ambient Temperature and Voltage to
Field Ambient Temperature And Voltage

| | | | |
|-----|----------------------------------|-------|--|
| Cf: | <input type="text" value="60%"/> | Tuse: | <input type="text" value="55 °C"/> |
| Ea: | <input type="text" value="0.7"/> | Vuse: | <input type="text" value="5.5 Volts"/> |
| β: | <input type="text" value="1"/> | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|--------------------|----------|----------------------|-------|-------------|
| 24426 | INFANT LIFE | 125C, 7.0 VOLTS | 230 | 48 | HOUR | 0 |
| 24427 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 73 | 336 | HOUR | 0 |
| | | 125C, 7.0 VOLTS | 73 | 1000 | HOUR | 0 |
| TOTAL: | | | 31 | DEVICE HRS: 2.94E+07 | | 0 |
| 23951 | ULTRASOUND | J-STD-020 | 4 | 2 | DAYS | 0 |
| TOTAL: | | | | | | 0 |
| 23952 | STORAGE LIFE | 125C | 238 | 24 | HOUR | 0 |
| | MOISTURE SOAK | 30C/60% R.H. | 238 | 144 | HOUR | 0 |
| | CONVECTION REFLOW | 235C | 235 | 3 | PASS | 0 |
| TOTAL: | | | | | | 0 |
| 24425 | PRECONDITION U/S | J-STD-020 | 4 | 5 | DAYS | 0 |
| | EXTERNAL VISUAL | MIL-STD-883-2009 | 4 | 5 | DAYS | 0 |
| TOTAL: | | | | | | 0 |
| 24428 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| TOTAL: | | | | | | 0 |
| 24429 | HAST | 130C, 85%R.H.,5.5V | 9 | 100 | HOUR | 0 |
| TOTAL: | | | | | | 0 |
| 24430 | HAST, NO BIAS | 130C, 85% R.H. | 48 | 100 | HOUR | 0 |
| TOTAL: | | | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS21S07 NOV '99 MONITOR

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|----------------|
| DS21S07A | F | 9908 | DK836680AAF | 20 | TSSOP | 170 | ATP (Anam, PI) |
| PROCESS Single Poly, Single Metal 0.8 μm Negative zero tempco poly | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|----------------------------------|-------|--|
| Cf: | <input type="text" value="60%"/> | Tuse: | <input type="text" value="55 °C"/> |
| Ea: | <input type="text" value="0.7"/> | Vuse: | <input type="text" value="5.5 Volts"/> |
| β: | <input type="text" value="1"/> | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|----------------------|-------|-------------|
| 24730 | INFANT LIFE | 125C, 7.0 VOLTS | 231 | 48 | HOUR | 0 |
| | | TOTAL: | 237 | DEVICE HRS: 3.87E+06 | | 0 |
| 24727 | ULTRASOUND | J-STD-020 | 4 | 5 | DAYS | 0 |
| | | TOTAL: | | | | 0 |
| 24728 | STORAGE LIFE | 125C | 238 | 24 | HOUR | |
| | MOISTURE SOAK | 85C/85% R.H. | 238 | 168 | HOUR | |
| | CONVECTION REFLOW | 235C | 235 | 3 | PASS | 0 |
| | | TOTAL: | | | | 0 |
| 24734 | AUTOCLAVE | 121C STEAM, UNBIASED | 40 | 96 | HOUR | 0 |
| | | TOTAL: | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS21S07 AUG '99 MONITOR - CARSEM

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|---------------|
| DS21S07A | F | 9913 | DM828145AAA | 20 | TSSOP | 170 | Carsem S |
| PROCESS Single Poly, Single Metal 0.8 μm Negative zero tempco poly | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|-----|-------|-----------|
| Cf: | 60% | Tuse: | 55 °C |
| Ea: | 0.7 | Vuse: | 5.5 Volts |
| β: | 1 | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|----------------------|-------|-------------|
| 24378 | INFANT LIFE | 125C, 7.0 VOLTS | 229 | 48 | HOUR | 0 |
| 24379 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 77 | 336 | HOUR | 0 |
| TOTAL: | | | 71 | DEVICE HRS: 1.29E+07 | | 0 |
| 24375 | ULTRASOUND | J-STD-020 | 4 | 5 | DAYS | 0 |
| TOTAL: | | | | | | 0 |
| 24376 | STORAGE LIFE | 125C | 238 | 24 | HOUR | |
| | MOISTURE SOAK | 85C/85% R.H. | 238 | 168 | HOUR | |
| | CONVECTION REFLOW | 235C | 238 | 3 | PASS | 0 |
| TOTAL: | | | | | | 0 |
| 24377 | PRECONDITION U/S | J-STD-020 | 4 | 7 | DAYS | 0 |
| TOTAL: | | | | | | 0 |
| 24380 | TEMP CYCLE | -55C TO 125C | 38 | 300 | CYCL | 0 |
| TOTAL: | | | | | | 0 |
| 24381 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 70 | 274 | HOUR | 0 |
| TOTAL: | | | | | | 0 |
| 24382 | AUTOCLAVE | 121C STEAM, UNBIASED | 40 | 96 | HOUR | 0 |
| TOTAL: | | | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2401 JUN '99 TO92 MONITOR-CARSEM

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|---------------|
| DS2401 | C2 | 9910 | DM840523AHA | 3 | TO92 | 180 | Carsem |
| PROCESS Single Poly, Single Metal 0.6 μm Standard Process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

Cf: Tuse:
 Ea: Vuse:
 β:

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|-------------------|----------------------|-------|-------------|
| 23956 | INFANT LIFE | 125C, 6.0 VOLTS | 231 | 48 | HOUR | 3 |
| 24411 | HIGH VOLTAGE LIFE | 125C, 6.0 VOLTS | 77 | 336 | HOUR | 0 |
| | | 125C, 6.0 VOLTS | 77 | 1000 | HOUR | 0 |
| TOTAL: | | | 369 | DEVICE HRS: 1.13E+07 | | 3 |
| 24412 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| | | | 40 | 1000 | CYCL | 0 |
| TOTAL: | | | | | | 0 |
| 24413 | HAST | 130C, 85%R.H.,5.5V | 74 | 100 | HOUR | 0 |
| TOTAL: | | | | | | 0 |
| 24414 | AUTOCLAVE | 121C STEAM, UNBIASED | 40 | 96 | HOUR | 0 |
| TOTAL: | | | | | | 0 |
| JOB NO | FAILURE MODE | FAILURE MECHANISM | CORRECTIVE ACTION | | | |
| 23956 | PREFUNCTIONAL | IN FA (2 UNITS) | IN PROCESS | | | |
| 23956 | DQ RESISTANCE | IN FA (1 UNIT) | IN PROCESS | | | |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2401 SEP '99 MONITOR - CARSEM

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|---------------|
| DS2401 | C2 | 9926 | DM912460AAA | 3 | TO92 | 180 | Carsem |
| PROCESS Single Poly, Single Metal 0.6 μm Standard Process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|-----|-------|-----------|
| Cf: | 60% | Tuse: | 55 °C |
| Ea: | 0.7 | Vuse: | 5.5 Volts |
| β: | 1 | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|-----------------------------|----------|-----------|----------------------|----------------------|
| 24472 | INFANT LIFE | 125C, 6.0 VOLTS | 234 | 48 | HOUR | 0 |
| 24473 | HIGH VOLTAGE LIFE | 125C, 6.0 VOLTS | 77 | 336 | HOUR | 0 |
| | | 125C, 6.0 VOLTS | 77 | 1000 | HOUR | 0 |
| | | TOTAL: | | | FAIL RATE (Fits): 81 | DEVICE HRS: 1.13E+07 |
| 24474 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| | | | 40 | 1000 | CYCL | 0 |
| | | TOTAL: | | | | |
| 24475 | HAST | 130C, 85%R.H.,5.5V | 77 | 100 | HOUR | 0 |
| | | TOTAL: | | | | |
| 24476 | AUTOCLAVE | 121C, 2 ATM STEAM, UNBIASED | 40 | 96 | HOUR | 0 |
| | | TOTAL: | | | | |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2434 FEB '99 MONITOR - CARSEM

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|--------------|-------|---------------|
| DS2434 | D1 | 9828 | DM809174AAB | 3 | TO226 (PR35) | 350 | Carsem |
| PROCESS Single Poly, Single Metal 0.8 μm E2PROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

Cf: Tuse:
 Ea: Vuse:
 β:

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|-----------|----------------------|----------------------|
| 23278 | INFANT LIFE | 125C, 7.0 VOLTS | 237 | 48 | HOUR | 0 |
| 24066 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 76 | 336 | HOUR | 0 |
| | | 125C, 7.0 VOLTS | 76 | 1000 | HOUR | 0 |
| | | TOTAL: | | | FAIL RATE (Fits): 30 | DEVICE HRS: 3.05E+07 |
| 24067 | TEMP CYCLE | -55C TO 125C | 50 | 300 | CYCL | 0 |
| | | | 50 | 1000 | CYCL | 0 |
| | | TOTAL: | | | | |
| 24068 | HAST | 130C, 85%R.H.,5.5V | 70 | 100 | HOUR | 0 |
| | | TOTAL: | | | | |
| 24069 | AUTOCLAVE | 121C STEAM, UNBIASED | 40 | 96 | HOUR | 0 |
| | | TOTAL: | | | | |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2434 AUG '99 MONITOR - CARSEM

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|--------------|-------|---------------|
| DS2434 | D1 | 9837 | DM811482AAA | 3 | TO226 (PR35) | 350 | Carsem |
| PROCESS Single Poly, Single Metal 0.8 μm E2PROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

Cf: Tuse:
 Ea: Vuse:
 β:

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|-------------------|----------------------|-------|-------------|
| 24391 | INFANT LIFE | 125C, 7.0 VOLTS | 233 | 48 | HOUR | 0 |
| 24392 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 77 | 336 | HOUR | 0 |
| | | 125C, 7.0 VOLTS | 77 | 1000 | HOUR | 0 |
| | | TOTAL: | 30 | DEVICE HRS: 3.08E+07 | | 0 |
| 24393 | TEMP CYCLE | -55C TO 125C | 50 | 300 | CYCL | 0 |
| | | | 47 | 1000 | CYCL | 3 |
| | | TOTAL: | | | | 3 |
| 24394 | HAST | 130C, 85%R.H.,5.5V | 69 | 100 | HOUR | 0 |
| | | TOTAL: | | | | 0 |
| 24395 | AUTOCLAVE | 121C STEAM, UNBIASED | 37 | 96 | HOUR | 0 |
| | | TOTAL: | | | | 0 |
| JOB NO | FAILURE MODE | FAILURE MECHANISM | CORRECTIVE ACTION | | | |
| 24393 | MEMORY LO | IN VERIFICATION | NA | | | |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2434 NOV '99 MONITOR

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|--------------|-------|---------------|
| DS2434 | D1 | 9851 | DM833262AAA | 3 | TO226 (PR35) | 350 | Carsem |
| PROCESS Single Poly, Single Metal 0.8 μm E2PROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

Cf: Tuse:
 Ea: Vuse:
 β:

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|-----------------------------|----------------------|-------------------|-------|-------------|
| 24712 | INFANT LIFE | 125C, 7.0 VOLTS | 237 | 48 | HOUR | 0 |
| 24713 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 77 | 336 | HOUR | 0 |
| TOTAL: | | | 70 | FAIL RATE (Fits): | | 0 |
| | | | DEVICE HRS: 1.30E+07 | | | |
| 24715 | HAST | 130C, 85%R.H.,5.5V | 70 | 100 | HOUR | 0 |
| TOTAL: | | | 0 | | | |
| 24716 | AUTOCLAVE | 121C, 2 ATM STEAM, UNBIASED | 40 | 96 | HOUR | 0 |
| TOTAL: | | | | | | |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2502 MAR '99 MONITOR-CARSEM

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|---------------|
| DS2502 | C2 | 9913 | DM842206ALB | 8 | SOIC | 150 | Carsem S |
| PROCESS Double Poly, Single Metal 0.6 μm EPROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

Cf: Tuse:
 Ea: Vuse:
 β:

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|--------------------|------------------|----------|----------------------|-------|-------------|
| 24153 | INFANT LIFE | 125C, 6.0 VOLTS | 222 | 48 | HOUR | 0 |
| 24261 | HIGH VOLTAGE LIFE | 125C, 6.0 VOLTS | 77 | 336 | HOUR | 0 |
| | | 125C, 6.0 VOLTS | 77 | 1000 | HOUR | 0 |
| | | TOTAL: | 81 | DEVICE HRS: 1.13E+07 | | 0 |
| 23635 | ULTRASOUND | J-STD-020 | 0 | 0 | DAYS | 0 |
| | | TOTAL: | | | | |
| 23636 | STORAGE LIFE | 125C | 238 | 24 | HOUR | 0 |
| | MOISTURE SOAK | 85C/85% R.H. | 238 | 168 | HOUR | 0 |
| | VAPOR PHASE REFLOW | 217C | 238 | 3 | PASS | 0 |
| | | TOTAL: | | | | 0 |
| 24152 | PRECONDITION U/S | J-STD-020 | 0 | 1 | DAYS | 0 |
| | | TOTAL: | | | | |
| 24262 | TEMP CYCLE | -55C TO 125C | 34 | 300 | CYCL | 0 |
| | | | 34 | 1000 | CYCL | 0 |
| | | TOTAL: | | | | 0 |
| 24263 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 76 | 274 | HOUR | 0 |
| | | | 74 | 959 | HOUR | 0 |
| | | TOTAL: | | | | 0 |
| 24264 | STORAGE LIFE | 150C | 34 | 336 | HOUR | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2502 MAR '99 MONITOR-CARSEM

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|---------------|
| DS2502 | C2 | 9913 | DM842206ALB | 8 | SOIC | 150 | Carsem S |
| PROCESS Double Poly, Single Metal 0.6 μm EPROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|-----|-------|-----------|
| Cf: | 60% | Tuse: | 55 °C |
| Ea: | 0.7 | Vuse: | 5.5 Volts |
| β: | 1 | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|----------|-----------|----------|-----------|-------|-------------|
| | | | 34 | 1000 | HOUR | 0 |
| | | TOTAL: | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2502 JUN '99 MONITOR - CARSEM

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|---------------|
| DS2502 | C2 | 9915 | DM846764AAA | 8 | SOIC | 150 | Carsem S |
| PROCESS Double Poly, Single Metal 0.6 μm EPROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

Cf: Tuse:
 Ea: Vuse:
 β:

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|--------------------|------------------|----------|----------------------|-------|-------------|
| 24169 | INFANT LIFE | 125C, 6.0 VOLTS | 229 | 48 | HOUR | 0 |
| 24174 | HIGH VOLTAGE LIFE | 125C, 6.0 VOLTS | 77 | 336 | HOUR | 0 |
| | | 125C, 6.0 VOLTS | 77 | 1000 | HOUR | 0 |
| TOTAL: | | | 81 | DEVICE HRS: 1.13E+07 | | 0 |
| 23957 | ULTRASOUND | J-STD-020 | 0 | 2 | DAYS | 0 |
| TOTAL: | | | | | | |
| 23958 | STORAGE LIFE | 125C | 238 | 24 | HOUR | 0 |
| | MOISTURE SOAK | 85C/85% R.H. | 238 | 168 | HOUR | 0 |
| | VAPOR PHASE REFLOW | 217C | 238 | 3 | PASS | 0 |
| TOTAL: | | | | | | 0 |
| 24175 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| | | | 40 | 1000 | CYCL | 0 |
| TOTAL: | | | | | | 0 |
| 24176 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 75 | 274 | HOUR | 0 |
| | | | 75 | 959 | HOUR | 0 |
| TOTAL: | | | | | | 0 |
| 24177 | STORAGE LIFE | 150C | 37 | 336 | HOUR | 0 |
| | | | 37 | 1000 | HOUR | 0 |
| TOTAL: | | | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS2502 SEP '99 MONITOR-CARSEM

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|---------------|
| DS2502 | C2 | 9918 | DM849359ACA | 8 | SOIC | 150 | Carsem S |
| PROCESS Double Poly, Single Metal 0.6 μm EPROM process | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

Cf: Tuse:
 Ea: Vuse:
 β:

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|------------------|----------|----------------------|-------|-------------|
| 24480 | INFANT LIFE | 125C, 6.0 VOLTS | 231 | 48 | HOUR | 0 |
| 24481 | HIGH VOLTAGE LIFE | 125C, 6.0 VOLTS | 77 | 336 | HOUR | 0 |
| | | 125C, 6.0 VOLTS | 77 | 1000 | HOUR | 0 |
| TOTAL: | | | 81 | DEVICE HRS: 1.13E+07 | | 0 |
| 24478 | STORAGE LIFE | 125C | 238 | 24 | HOUR | |
| | MOISTURE SOAK | 85C/85% R.H. | 238 | 168 | HOUR | |
| | CONVECTION REFLOW | 235C | 236 | 3 | PASS | 0 |
| TOTAL: | | | | | | 0 |
| 24482 | TEMP CYCLE | -55C TO 125C | 43 | 300 | CYCL | 0 |
| | | | 43 | 1000 | CYCL | 0 |
| TOTAL: | | | | | | 0 |
| 24483 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 77 | 274 | HOUR | 0 |
| | | | 77 | 959 | HOUR | 0 |
| TOTAL: | | | | | | 0 |
| 24484 | STORAGE LIFE | 150C | 34 | 336 | HOUR | 0 |
| | | | 34 | 1000 | HOUR | 0 |
| TOTAL: | | | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS5002 APR '99 MONITOR,D.P.-CARSEM

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|--|----------|-----------|-------------|------|---------|-------|---------------|
| DS5002 | B3 | 9905 | DM831680AAC | 80 | MQFP | 550 | Carsem |
| PROCESS Single Poly, Single Metal 1.2 µm Buried contacts w/silicided poly | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
Stress Ambient Temperature and Voltage to
Field Ambient Temperature And Voltage

Cf: Tuse:
Ea: Vuse:
β:

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|----------------------|-------|-------------|
| 23852 | INFANT LIFE | 125C, 7.0 VOLTS | 199 | 48 | HOUR | 0 |
| 23973 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 77 | 336 | HOUR | 0 |
| | | 125C, 7.0 VOLTS | 77 | 1000 | HOUR | 0 |
| | | TOTAL: | 30 | DEVICE HRS: 3.02E+07 | | 0 |
| 23671 | ULTRASOUND | J-STD-020 | 4 | 1 | DAYS | 0 |
| | | TOTAL: | | | | 0 |
| 23672 | STORAGE LIFE | 125C | 203 | 24 | HOUR | 0 |
| | MOISTURE SOAK | 30C/60% R.H. | 203 | 144 | HOUR | 0 |
| | SOLDER HEAT | HTC VAPOR PHASE | 203 | 3 | PASS | 0 |
| | | TOTAL: | | | | 0 |
| 23851 | PRECONDITION U/S | J-STD-020 | 4 | 2 | DAYS | 0 |
| | | TOTAL: | | | | 0 |
| 23974 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| | | | 40 | 1000 | CYCL | 0 |
| | | TOTAL: | | | | 0 |
| 23975 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 42 | 274 | HOUR | 0 |
| | | | 42 | 959 | HOUR | 0 |
| | | TOTAL: | | | | 0 |
| 23976 | AUTOCLAVE | 121C STEAM, UNBIASED | 40 | 96 | HOUR | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS5002 APR '99 MONITOR,D.P.-CARSEM

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|---------------|
| DS5002 | B3 | 9905 | DM831680AAC | 80 | MQFP | 550 | Carsem |
| PROCESS Single Poly, Single Metal 1.2 μ m Buried contacts w/silicided poly | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----------|-----|-------|-----------|
| Cf: | 60% | Tuse: | 55 °C |
| Ea: | 0.7 | Vuse: | 5.5 Volts |
| β : | 1 | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|----------|-----------|----------|-----------|-------|-------------|
| TOTAL: | | | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

| | | | | | | | |
|--|-----------------|------------------|-------------------|-------------|----------------|--------------|----------------------|
| DS5002 OCT '99 MONITOR | | | | | | | |
| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
| DS5002 | C4 | 9931 | DM849386AAE | 80 | MQFP | 550 | Carsem |
| PROCESS Single Poly, Single Metal 0.6 µm Buried contacts w/silicided poly | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

Cf: Tuse:
 Ea: Vuse:
 β:

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|-----------------|----------|----------------------------|-------|-------------|
| 24579 | INFANT LIFE | 125C, 7.0 VOLTS | 88 | 48 | HOUR | 0 |
| TOTAL: | | | 621 | FAIL RATE (Fits): 1.48E+06 | | 0 |
| 24576 | ULTRASOUND | J-STD-020 | 4 | 7 | DAYS | 0 |
| TOTAL: | | | | | | 0 |
| 24577 | STORAGE LIFE | 125C | 203 | 24 | HOUR | |
| | MOISTURE SOAK | 30C/60% R.H. | 203 | 144 | HOUR | |
| | CONVECTION REFLOW | 220C | 195 | 3 | PASS | 0 |
| TOTAL: | | | | | | 0 |
| 24578 | PRECONDITION U/S | J-STD-020 | 4 | 2 | DAYS | 0 |
| TOTAL: | | | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS80320 APR '99 MONITOR,ANAM-PI

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|----------------|
| DS80C320 | C4 | 9903 | DK826547AAD | 40 | DIP | 600 | ATP (Anam, PI) |
| PROCESS Single Poly, Single Metal 0.6 μm Poly 1 Silicide | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|----------------------------------|-------|--|
| Cf: | <input type="text" value="60%"/> | Tuse: | <input type="text" value="55 °C"/> |
| Ea: | <input type="text" value="0.7"/> | Vuse: | <input type="text" value="5.5 Volts"/> |
| β: | <input type="text" value="1"/> | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|----------------------|----------|----------------------|-------|-------------|
| 23673 | INFANT LIFE | 125C, 7.0 VOLTS | 234 | 48 | HOUR | 0 |
| 23690 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 77 | 336 | HOUR | 0 |
| | | 125C, 7.0 VOLTS | 77 | 1000 | HOUR | 0 |
| | | TOTAL: | 30 | DEVICE HRS: 3.08E+07 | | 0 |
| 23691 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| | | | 40 | 1000 | CYCL | 0 |
| | | TOTAL: | | | | 0 |
| 23692 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 72 | 274 | HOUR | 0 |
| | | | 72 | 959 | HOUR | 0 |
| | | TOTAL: | | | | 0 |
| 23693 | AUTOCLAVE | 121C STEAM, UNBIASED | 40 | 96 | HOUR | 0 |
| | | TOTAL: | | | | 0 |

Empty "No of Fails" TOTAL implies that Material is still in stress

RELIABILITY MONITOR

DS80C320 OCT '99 MONITOR

| DEVICE | REVISION | DATE CODE | LOT NUMBER | PINS | PACKAGE | WIDTH | ASSEMBLY SITE |
|---|----------|-----------|-------------|------|---------|-------|-----------------|
| DS80C320 | C5 | 9938 | DH925592AAB | 40 | DIP | 600 | CPS (ChipPac, C |
| PROCESS Single Poly, Single Metal 0.6 μm Poly 1 Silicide | | | | | | | |

Summary Data with Chi-Square Distribution Assumed.
 Stress Ambient Temperature and Voltage to
 Field Ambient Temperature And Voltage

| | | | |
|-----|-----|-------|-----------|
| Cf: | 60% | Tuse: | 55 °C |
| Ea: | 0.7 | Vuse: | 5.5 Volts |
| β: | 1 | | |

| JOB NO | DESCRIPT | CONDITION | QUANTITY | READPOINT | UNITS | NO OF FAILS |
|--------|-------------------|-----------------------------|-------------------|--|-------|-------------|
| 24584 | INFANT LIFE | 125C, 7.0 VOLTS | 234 | 48 | HOUR | 0 |
| 24585 | HIGH VOLTAGE LIFE | 125C, 7.0 VOLTS | 76 | 336 | HOUR | 0 |
| TOTAL: | | | 71 | FAIL RATE (Fits): DEVICE HRS: 1.28E+07 | | 0 |
| 24586 | TEMP CYCLE | -55C TO 125C | 40 | 300 | CYCL | 0 |
| TOTAL: | | | | | | 0 |
| 24587 | BIASED MOISTURE | 85/85, 5.5 VOLTS | 77 | 274 | HOUR | 0 |
| TOTAL: | | | | | | 0 |
| 24588 | AUTOCLAVE | 121C, 2 ATM STEAM, UNBIASED | 37 | 96 | HOUR | 1 |
| TOTAL: | | | | | | 1 |
| JOB NO | FAILURE MODE | FAILURE MECHANISM | CORRECTIVE ACTION | | | |
| 24588 | CONTINUITY | NOT ANALYZED | NA | | | |

Empty "No of Fails" TOTAL implies that Material is still in stress