

RELIABILITY MONITOR

| PRODUCT | MONITOR DATE | DATE CODE | ASSEMBLY FACILITY | ASSEMBLY LOT NO | PROCESS TYPE | PACKAGE TYPE |
|---------|--------------|-----------|-------------------|-----------------|--------------|--------------|
| DS232A | Sep-97 | 9719 B3 | OMEDATA | DD709202AAD | 5.0μ OX/NI | 16 PDIP |

STRESS/JOB NO.

READPOINT (Sample Size/No. of Fails)

| | | | | | | | | | |
|---|--|--------------|----------------------|-------------|----------------------|-------|------|--|--|
| Infant / High Voltage Life 125°C, 7.0 V. P-20421, P-20497 | <table border="0"> <tr> <td><u>48 Hr</u></td> <td><u>336 Hr</u></td> <td><u>1KHr</u></td> <td><u>*Failure Rate</u></td> </tr> <tr> <td>231/0</td> <td>77/0</td> <td></td> <td></td> </tr> </table> | <u>48 Hr</u> | <u>336 Hr</u> | <u>1KHr</u> | <u>*Failure Rate</u> | 231/0 | 77/0 | | |
| <u>48 Hr</u> | <u>336 Hr</u> | <u>1KHr</u> | <u>*Failure Rate</u> | | | | | | |
| 231/0 | 77/0 | | | | | | | | |

*Chi Squared Method, 60% C. L., 55°C & 5.5V; Temperature Derating: Ea = 0.7 ev; Voltage Derating B = 1.0

| | | | | | | | |
|--|--|--------------|-------------|--------------|------|--|--|
| Temp Cycle -55°C to +125°C P-20498 | <table border="0"> <tr> <td><u>300 ~</u></td> <td><u>1K ~</u></td> <td><u>Cum %</u></td> </tr> <tr> <td>39/0</td> <td></td> <td></td> </tr> </table> | <u>300 ~</u> | <u>1K ~</u> | <u>Cum %</u> | 39/0 | | |
| <u>300 ~</u> | <u>1K ~</u> | <u>Cum %</u> | | | | | |
| 39/0 | | | | | | | |

| | | | | | | | |
|---|---|---------------|---------------|--------------|--|--|--|
| Biased Moisture 85°C/85% RH, 5.5 V. P-20499 | <table border="0"> <tr> <td><u>274 Hr</u></td> <td><u>959 Hr</u></td> <td><u>Cum %</u></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> | <u>274 Hr</u> | <u>959 Hr</u> | <u>Cum %</u> | | | |
| <u>274 Hr</u> | <u>959 Hr</u> | <u>Cum %</u> | | | | | |
| | | | | | | | |

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|--|---|--------------|--------------|------|------|
| Autoclave 121°C/100% RH, 2 Atmos P-20500 | <table border="0"> <tr> <td><u>96 Hr</u></td> <td><u>Cum %</u></td> </tr> <tr> <td>38/0</td> <td>0.0%</td> </tr> </table> | <u>96 Hr</u> | <u>Cum %</u> | 38/0 | 0.0% |
| <u>96 Hr</u> | <u>Cum %</u> | | | | |
| 38/0 | 0.0% | | | | |

Failure Mode

Failure Analysis