

RELIABILITY MONITOR

PRODUCT	MONITOR DATE	DATE CODE	ASSEMBLY FACILITY	ASSEMBLY LOT NO	PROCESS TYPE	PACKAGE TYPE
DS5002	Oct-97	9738 B3	CARSEM	DM722224AAB	1.2μ OX/NI	80 PQFP

STRESS/JOB NO.

**READPOINT
(Sample Size/No. of Fails)**

Preconditioning (P/C): Bake, 125°C, 24 Hr Moisture Soak, 30°C/60% RH, 144 Hr Vapor Phase Reflow, 3 Passes, P-20706	<u>Electrical</u>	<u>Cum %</u>
	203/0	0.0%
Sonoscan P-20757	<u>Post Vapor Phase</u>	
	4/0	

Infant / High Voltage Life	<u>48 Hr</u>	<u>336 Hr</u>	<u>1KHr</u>	<u>*Failure Rate</u>
125°C, 7.0 V. P-20758, P-20837	198/0	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-20838	<u>300 ~</u>	<u>1K ~</u>	<u>Cum %</u>
	40/0		

Biased Moisture 85°C/85% RH, 5.5 V. P-20839	<u>274 Hr</u>	<u>959 Hr</u>	<u>Cum %</u>
	42/0		

Autoclave 121°C/100% RH, 2 Atmos P-20840	<u>96 Hr</u>	<u>Cum %</u>
	39/0	0.0%

Failure Mode

Failure Analysis