

RELIABILITY MONITOR

PRODUCT	MONITOR DATE	DATE CODE	ASSEMBLY FACILITY	ASSEMBLY LOT NO	PROCESS TYPE	PACKAGE TYPE
DS1232	Jun-97	9712 C1	HYUNDAI	DL705493AAD	3.0μ OX/NI	16 SOIC

STRESS/JOB NO.

READPOINT

(Sample Size/No. of Fails)

Preconditioning (P/C):
HTC Vapor Phase
P-19819

<u>Electrical</u>	<u>Cum %</u>
231/0	0.0%

Sonoscan
P-19838

Post Vapor Phase
4/3
F1

Infant / High Voltage Life
125°C, 7.0 V.
P-19839, P-19903

<u>48 Hr</u>	<u>336 Hr</u>	<u>1K Hr</u>	<u>*Failure Rate</u>
227/0	77/0	77/0	30 Fits

*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-19904

<u>300 ~</u>	<u>1K ~</u>	<u>Cum %</u>
35/0	35/0	0.0%

Biased Moisture
85°C/85% RH, 5.5 V.
P-19905

<u>274 Hr</u>	<u>959 Hr</u>	<u>Cum %</u>
77/0	77/0	0.0%

Autoclave
121°C/100% RH, 2 Atmos
P-19906

<u>96 Hr</u>	<u>Cum %</u>
34/0	0.0%

Failure Mode

F1: 3-Delamination

Failure Analysis

No failures post reliability stresses.