

RELIABILITY DATA RADHARD DEVICES

6/18/04

• OPERATING LIFE TEST

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS ⁽¹⁾ AT +125°C	NUMBER OF ⁽²⁾ FAILURES
RH07	333	9349	9718	342.89	0
RH1009	1,792	9321	0332	3,455.91	0
RH101	352	9202	0330	361.64	0
RH1011	935	9206	0337	1,006.62	0
RH1013	698	9429	0345	1,543.84	1
RH1014	2,071	9334	0302	2,603.83	2
RH1021	2,429	9144	0324	4,829.17	0
RH1056	397	9203	0226	415.22	0
RH1078	397	9613	0327	762.99	2
RH108	698	9151	0322	831.27	0
RH1083	81	9601	9714	81.19	0
RH1084	104	9714	9721	106.49	0
RH1085	179	9723	0140	189.84	1
RH1086	708	9621	0330	725.06	1
RH117	1,702	9210	0319	2,194.26	0
RH118	640	9119	9806	690.42	0
RH119	1,326	9150	0307	1,395.07	1
RH129	80	0338	0338	247.07	0
RH137	1,639	9150	0332	2,006.21	0
RH1498	80	0318	0318	87.28	0
RH27	529	9208	0241	804.82	0
RH270	80	9318	9318	80.19	0
RH37	240	9316	9608	245.50	0
	17,490			25,006.80	8



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- OPERATING LIFE TEST

- FAILURE RATE = 0.755 FITS at +55°C,
60% Confidence Level
Assumes an Activation
Energy = 1.0 eV
- MTBF = 151,019 Years

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• **SUBGROUP B-6**

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	CYCLES -65°C to +150°C	NUMBER OF FAILURES
H-08	1,080	9119	0330	108,000	0
H-39	485	9150	0330	47,055	0
H-46	471	9321	0338	44,210	0
H-52	84	9744	9840	8,400	0
J-08	243	9349	0337	22,855	0
J-14/J-16	197	9119	0319	19,700	0
K-03	261	9210	0320	24,655	0
W-10	801	9152	0346	77,210	0
W-14	747	9334	0302	74,700	0
	4,369			426,785	0

Note: J = CERDIP, H = HERMETIC, K = TO-3, W = FLATPACK

SUBGROUP B6 (CLASS S) MIL-STD-883
ELECTRICAL TEST +25°C / +125°C / -55°C
100 TEMP CYCLES -65°C TO +150°C
CONSTANT ACCELERATION 30Kg's Y1 Axis
FINE & GROSS LEAK
ELECTRICAL TEST +25°C - COMPUTE DELTA'S
ELECTRICAL TEST +125°C / -55°C COMPUTE TEMPCO'S