

RR1x0 / RR1x1 / RR12x / RR1x2 MTTF Life Test Data Summary

FIT & MRRT Calculations				
Part Series	RR1x0	RR1x1	RR12x	RR1x2
Sample Sizes	462	693	847	462
Test Temperature °C	125	150	150	125/150 / 160
Duration (hrs)	1000	1000	1000	500 & 1000
Quantity Failed	0	0	0	0
Equivalent Device Hours @ 55°C	462000	693000	847000	423500
FIT Rate (60% CL, 55°C)	25.7	5.16	4.22	6.8
MTTF (60% CL, 55°C)	3.89E+07	1.94E+08	2.37E+08	1.47E+08
FIT Rate (90% CL, 55°C)	64.58	12.96	10.6	22.25
MTTF (90% CL, 55°C)	1.55E+07	7.72E+07	9.43E+07	4.49E+07
24 HOURS RUNNING FOR 10 YEARS				
Failure Rate in 10 Years (60% CL)	0.22%	0.05%	0.04%	0.06%
Failure Rate in 10 Years (90% CL)	0.56%	0.11%	0.09%	0.19%
<i>Calculations assume 0.7eV Activation Energy</i>				