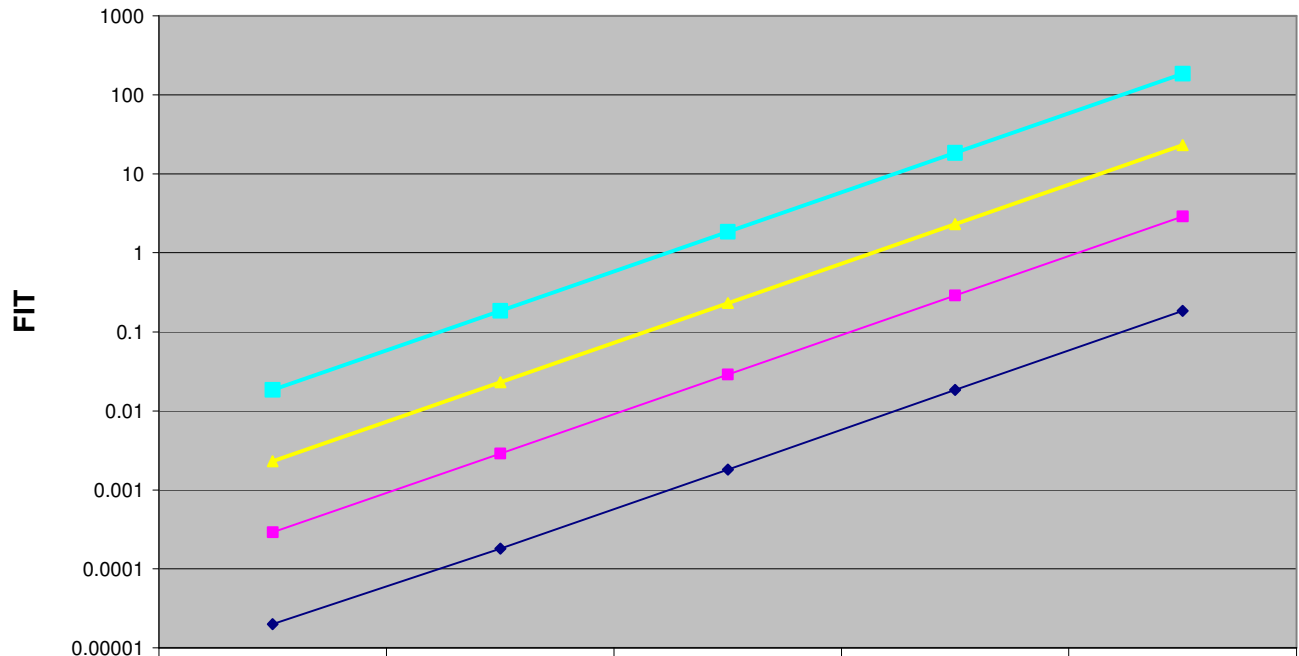




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X7R RELIABILITY DATA

X7R failure rates at 90% confidence



	25 °C	50 °C	75 °C	100 °C	125 °C
◆ 10% of RV	0.00002	0.00018	0.0018	0.0184	0.184
◆ 25% of RV	0.00029	0.00288	0.0288	0.2883	2.883
◆ 50% of RV	0.00231	0.0231	0.231	2.306	23.06
◆ RV	0.0184	0.1845	1.845	18.45	184.49

Test Condition: 2000hrs. @ 125°C. Applied voltage is dependant on capacitors tested.

Time Period Analyzed: July 2002 to January 2007.

Number of Capacitors Tested: 3,300

Testing Location: NOVACAP Reliability Test Department

Results: 1 Failure in 50,137,600 accelerated unit hours.

Conversion Factors:

From	To	Operation
FITS	MTBF (Hours)	$10^9 / \text{FITS}$
FITS	MTBF (Years)	$10^9 / (\text{FITS} \times 8760)$

FITS= Failures in 10^9 Hours

MTBF= Mean Time Between Failures