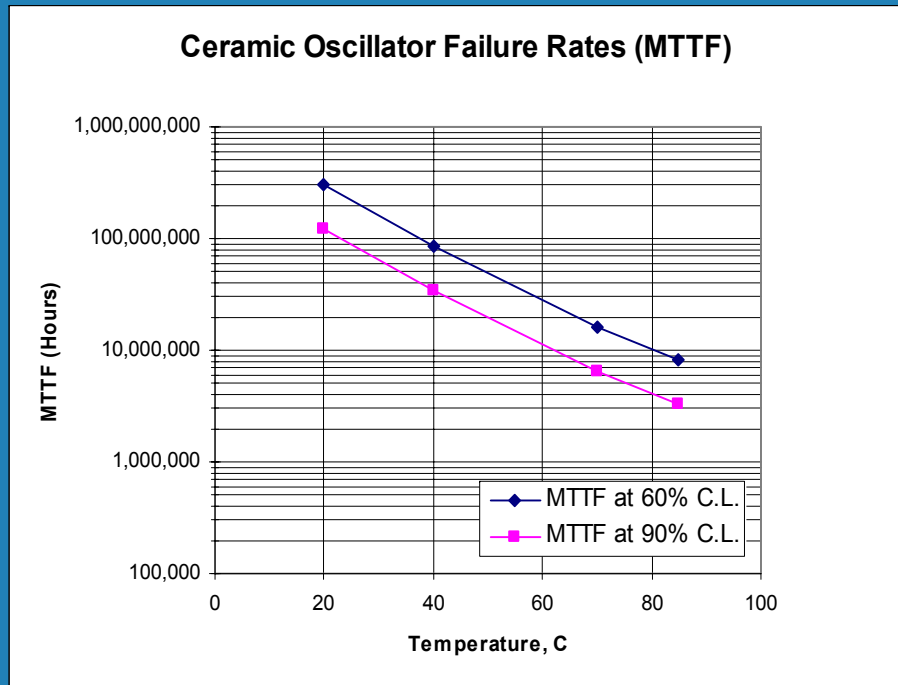
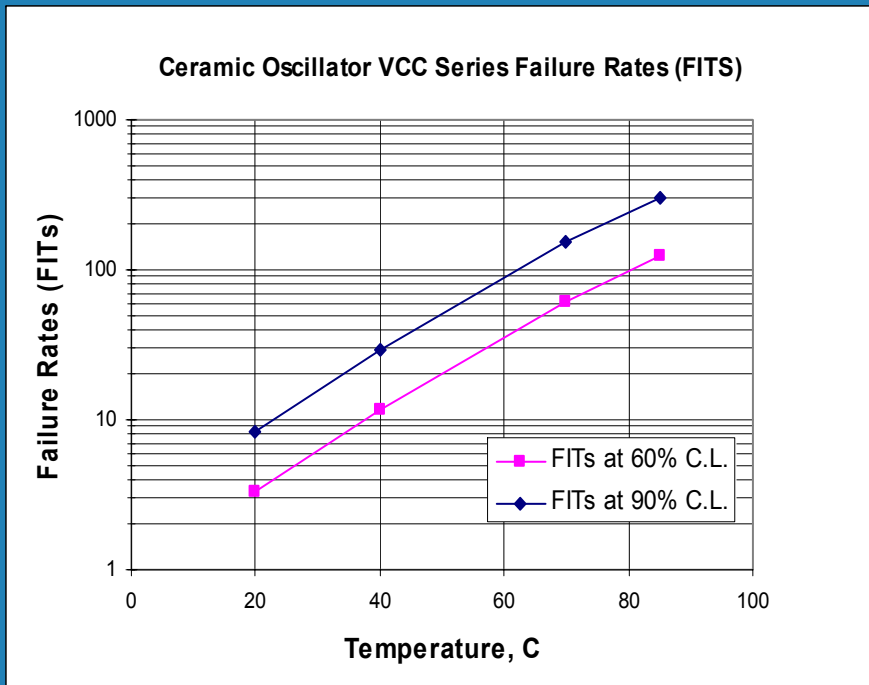


# VCC1 SERIES FITS RATE AND MTTF

## LONG-TERM FAILURE RATES

Using the previous cumulative ceramic oscillators life test data, the failure rates in FITs (failure in billion device-hours of operation) and Mean Time To Failures (MTTF) at both 60% and 90% confidence levels are depicted in the following charts:



Last Update: 02/01/06

# VCC1 SERIES FITS RATE AND MTTF

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## DETAIL INFORMATION:

1. Activation Energy  $E_a = 0.5\text{eV}$ .
2. The units were tested at 125C.
3. Device under test = 1,127 pcs were tested during qualification.
4. No failure has been observed during aging test.
5. Sample test duration 1000 hours minimum but usually keep up to 2000 hours.

Last Update: 02/01/06

