

3170 Family (3170-xxx) Mean Time Between Failure

3170-xxx MTBF = 7,697,440 hours

3170-xxx 5-year performance probability = 99.43%

Probability that any given unit will not fail within 5 years is determined by the formula $R(T) = e^{(-T/MTBF)}$ where $T = 43,800$ hours. Thus $R(T) = e^{(-.005703)} = 0.994313$. There is a 99.43 % probability that any given 3170 will perform without failure for 5 years.