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 SUB: Failure Rate of Electric Double layer Capacitor **NEDL series**

NIC Series	Sizes	Quantity Tested	Test Period (Hrs)	Operation Temperature	Total Testing Time (Hrs)	No. of Failures	Failure Rate (FIT)	MTTF (Hrs)*
NEDL	ALL	240	1,000	70°C	240,000	0	3,821	2.62E+05

Confidence level=0.6

* MTTF computes as shown below.

$$\text{MTTF} = \frac{1}{\text{Failure rate}}$$

$$\text{Failure rate} = \frac{\text{Total quantity of failure}}{\text{Total testing time}}$$

- Total testing time = Quantity of test (240 pcs.) × Period of test (1,000 hrs.)
 = 240,000 hrs.

- Total quantity of failure = 0 pcs.
 * Coefficient 0.917 (in case of 0 pcs., confidence level ; 60%)

$$\text{Failure rate } (\lambda) = \frac{0.917}{240,000} = 3.82083\text{E-06}$$

$$= 3821 \text{ FIT}$$

- MTTF = $\frac{1}{3.82083\text{E-06}}$
 = 2.62E+05