

NTC Inrush Current Limiters

Symbols and terms

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Symbols and terms

Symbol	English
B	B value
C_{test}	Test capacitance
C_{th}	Heat capacitance
I	Current
I_{max}	Maximum current within stated temperature range
I_{NTC}	NTC current
I_{test}	High test current for additional endurance tests
P_{max}	Maximum power within stated temperature range
R_{min}	Minimum resistance
R_{R}	Rated resistance
$\Delta R_{\text{R}}/R_{\text{R}}$	Resistance tolerance
R_{S}	Series resistance
R_{T}	Resistance at temperature T (e.g. R_{25} = resistance at 25 °C)
T	Temperature
t	Time
T_{A}	Ambient temperature
t_{a}	Thermal threshold time
T_{max}	Upper category temperature
T_{min}	Lower category temperature
T_{R}	Rated temperature
V	Voltage
V_{load}	Load voltage
V_{NTC}	Voltage drop across an NTC thermistor
α	Temperature coefficient
Δ	Tolerance, change
δ_{th}	Dissipation factor
τ_{c}	Thermal cooling time constant

Abbreviations / Notes

Symbol	English
*	To be replaced by a number in ordering codes, type designations etc.
+	To be replaced by a letter.
	All dimensions are given in mm.
	The commas used in numerical values denote decimal points.