



**PTC Characteristic Values**

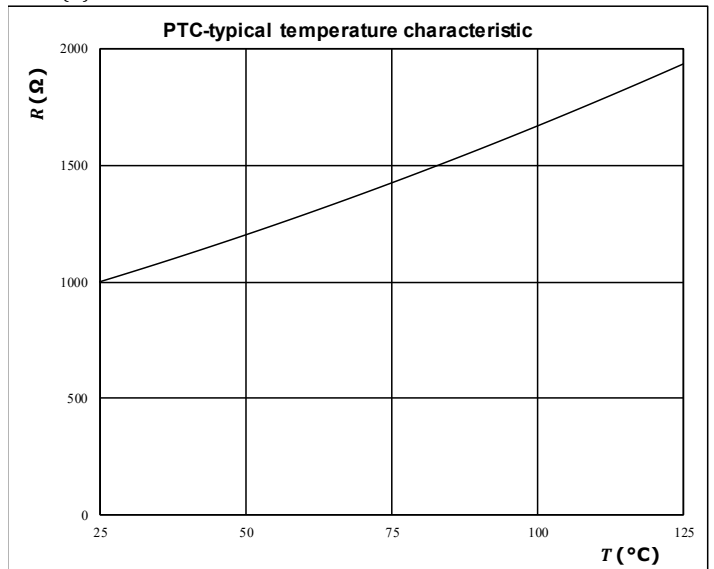
Parameter	Symbol	Conditions				Value			Unit
		$V_{GE}$ [V]	$V_{CE}$ [V]	$I_c$ [A]	$T_j$ [°C]	Min	Typ	Max	
Rated resistance	$R$				25		1		kΩ
Deviation of $R_{100}$	$\Delta_{R/R}$	$R_{100} = 1670 \Omega$			100	-2		+2	%
$R_{100}$	$R$				100		1670		Ω
Power dissipation constant					25		0,76		mW/K
A-value	A						$7,64 \cdot 10^{-3}$		1/°C
B-value	B						$1,73 \cdot 10^{-5}$		1/°C <sup>2</sup>
Vincotech PTC Reference								E	

Temp. [°C]	R Nom [Ω]	R Min [Ω]	R Max [Ω]
-40	577	554	599
-30	632	609	656
-20	691	666	716
-10	754	728	780
0	820	793	847
10	889	861	918
20	962	933	992
25	1000	970	1030
30	1039	1008	1069
35	1087	1047	1109
40	1118	1087	1150
50	1202	1170	1234
60	1288	1256	1321
70	1379	1346	1412
80	1472	1439	1506
90	1569	1536	1603
100	1670	1637	1703
110	1774	1735	1813
120	1882	1836	1927
125	1937	1888	1985
130	1993	1941	2044
140	2107	2048	2166
150	2225	2158	2292

**figure 1. Thermistor**

**Typical PTC characteristic as a function of temperature**

$R = f(T)$



$R(T) = R_{ref} [1 + A(T - T_{ref}) + B \cdot (T - T_{ref})^2]$

$R_{ref} = 1000 \text{ Ohm}, T_{ref} = 25^\circ\text{C}, A = 7.64 \cdot 10^{-3} \text{ }^\circ\text{C}^{-1}, B = 1.73 \cdot 10^{-5} \text{ }^\circ\text{C}^{-2}$