

### Applications

- Sensors for small measuring points
- Limit temperature monitoring

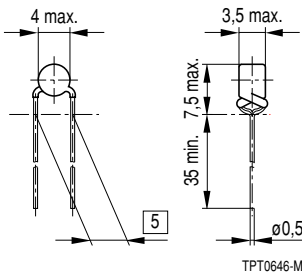
### Features

- Tinned leads
- Manufacturer's logo and type designation stamped on in white
- Characteristics for nominal threshold temperatures of 90 to 160 °C conform with DIN 44081

### Delivery mode

- Cardboard strips (standard), cardboard tape reeled or in AMMO pack on request

### Dimensional drawing



Dimensions (mm)

### General technical data

Max. operating voltage	$(T_A = 0 \dots 40 \text{ } ^\circ\text{C})$	$V_{\text{max}}$	30	VDC
Max. measuring voltage	$(T_A - 25 \text{ K} \dots T_{\text{NTT}} + 23 \text{ K})$	$V_{\text{meas,max}}$	7,5	VDC
Rated resistance	$(V_{\text{PTC}} \leq 2,5 \text{ V})$	$R_N$	$\leq 100^1)$	$\Omega$
Thermal threshold time		$t_a$	< 5	s
Operating temperature range	$(V \leq V_{\text{meas,max}})$	$T_{\text{op}}$	$-40/T_{\text{NTT}} + 23$	$^\circ\text{C}$
	$(V = V_{\text{max}})$	$T_{\text{op}}$	0/+ 40	$^\circ\text{C}$

1) Exception: B59100C0920A070:  $R_N > 100 \text{ k}\Omega$   
 B59100C0010A070:  $R_N > 5 \text{ k}\Omega$   
 B59100C0050A070:  $R_N < 150 \text{ }\Omega$

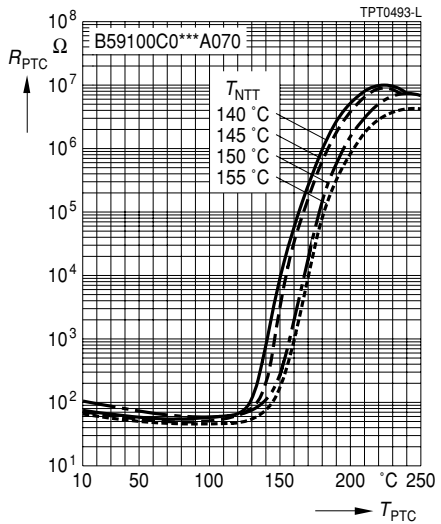
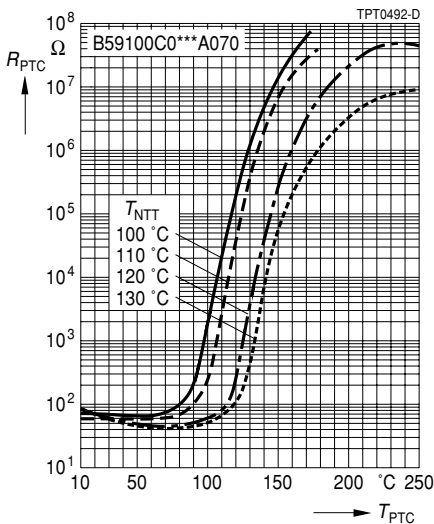
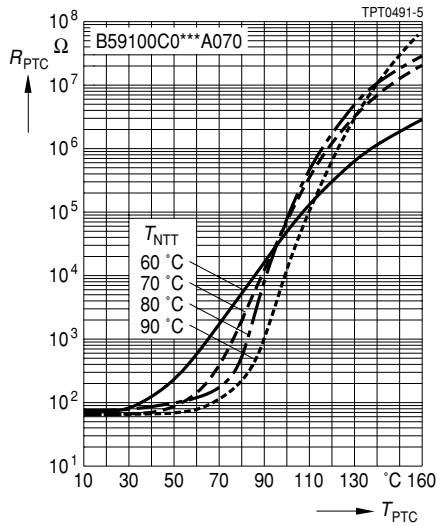
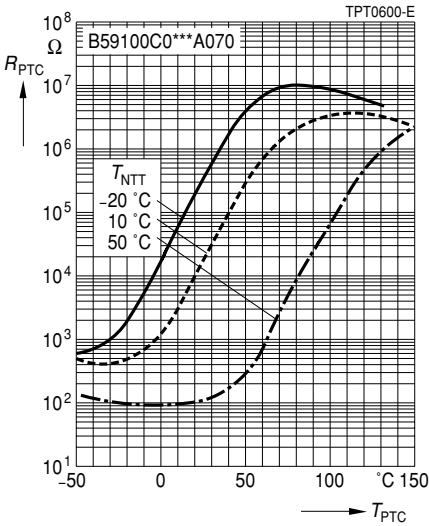
## Electrical specifications and ordering codes

$T_{NTT} \pm \Delta T$ °C	$R^1$ ( $T_{NTT} - \Delta T$ ) $\Omega$	$R^1$ ( $T_{NTT} + \Delta T$ ) $\Omega$	$R^2$ ( $T_{NTT} + 15 \text{ K}$ ) $\Omega$	$R^1$ ( $T_{NTT} + 23 \text{ K}$ ) $\Omega$	Bestell-Nummer
- 20 ± 5	≤ 2300	≥ 2300	—	≥ 10 k	B59100C0920A070
10 ± 5	≤ 2300	≥ 2300	—	≥ 10 k	B59100C0010A070
50 ± 5	≤ 400	≥ 400	—	≥ 4 k	B59100C0050A070
60 ± 5	≤ 570	≥ 570	—	≥ 10 k	B59100C0060A070
70 ± 5	≤ 570	≥ 570	—	≥ 10 k	B59100C0070A070
80 ± 5	≤ 570	≥ 570	—	≥ 10 k	B59100C0080A070
90 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59100C0090A070
100 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59100C0100A070
110 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59100C0110A070
120 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59100C0120A070
130 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59100C0130A070
140 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59100C0140A070
145 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59100C0145A070
150 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59100C0150A070
155 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59100C0155A070
160 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59100C0160A070
170 ± 6	≤ 550	≥ 1330	≥ 4 k	—	B59100C0170A070
180 ± 6	≤ 550	≥ 1330	≥ 4 k	—	B59100C0180A070

1)  $V_{PTC} \leq 2,5 \text{ V}$ 2)  $V_{PTC} \leq 7,5 \text{ V}$

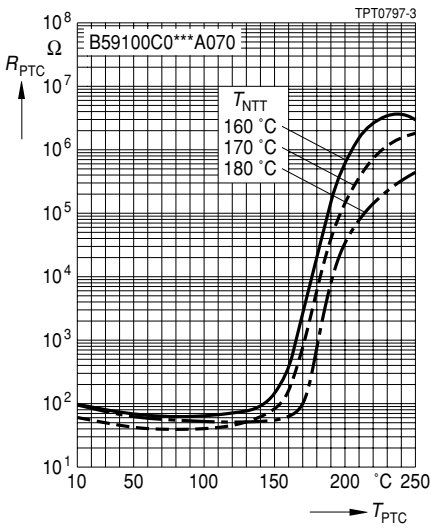
**Characteristics (typical)**

PTC resistance  $R_{PTC}$  versus PTC temperature  $T_{PTC}$   
(measured at low signal voltage)



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PTC resistance  $R_{PTC}$  versus PTC temperature  $T_{PTC}$   
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