

Applications

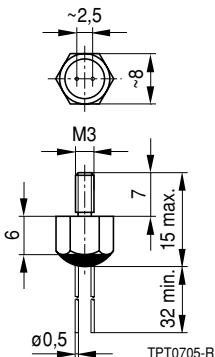
- Limit temperature sensor

Features

- Insulated screw-type metal case
- Thread M3
- Tinned leads
- Marked with nominal threshold temperature and type designation
- Characteristics for nominal threshold temperatures of 90 to 160 °C conform with DIN 44081
- Fast response due to small dimensions

Delivery mode

- Bulk

Dimensional drawing


Dimensions (mm)

General technical data

Max. operating voltage	$(T_A = 0 \dots 40 \text{ }^\circ\text{C})$	V_{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}	≤ 100	Ω
Insulation test voltage		V_{ins}	1,5	kV AC
Thermal threshold time		t_a	< 20	s
Operating temperature range	$(V \leq V_{\text{meas,max}})$	T_{op}	$-40/T_{\text{NTT}} + 23$	$^\circ\text{C}$
	$(V = V_{\text{max}})$	T_{op}	0/+ 40	$^\circ\text{C}$

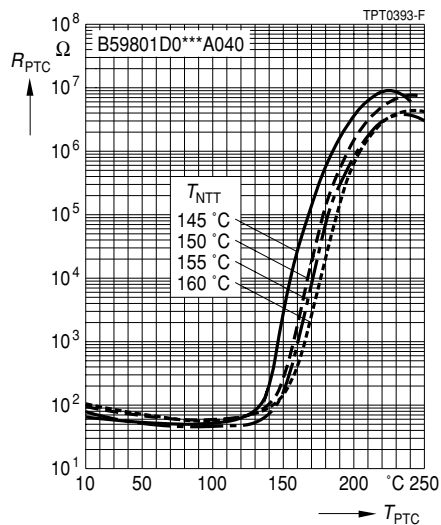
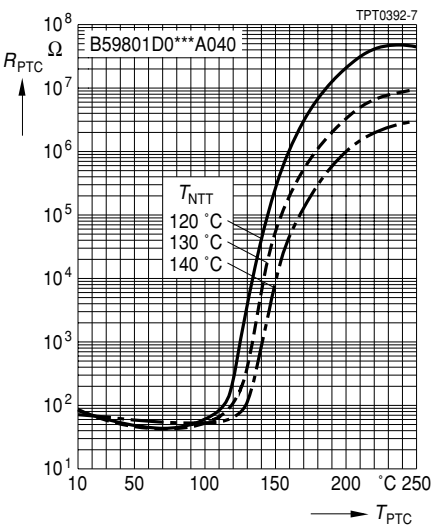
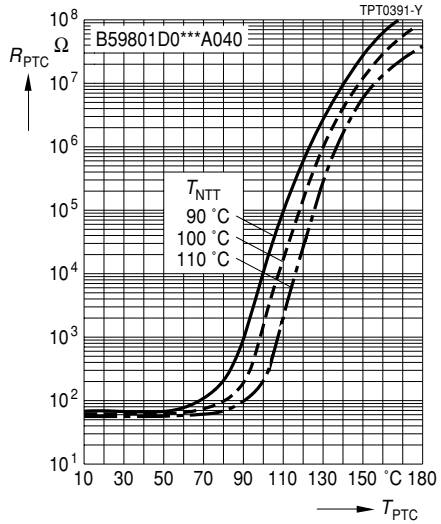
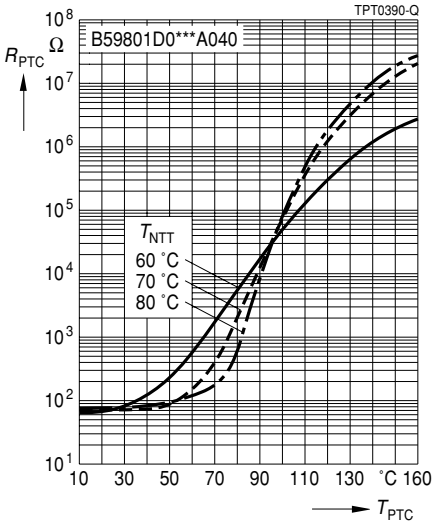
Electrical specifications and ordering codes

$T_{NTT} \pm \Delta T$ °C	$R^1)$ ($T_{NTT} - \Delta T$) Ω	$R^1)$ ($T_{NTT} + \Delta T$) Ω	$R^2)$ ($T_{NTT} + 15 \text{ K}$) Ω	$R^1)$ ($T_{NTT} + 23 \text{ K}$) Ω	Ordering code
60 ± 5	≤ 570	≥ 570	—	≥ 10 k	B59801D0060A040
70 ± 5	≤ 570	≥ 570	—	≥ 10 k	B59801D0070A040
80 ± 5	≤ 570	≥ 570	—	≥ 10 k	B59801D0080A040
90 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59801D0090A040
100 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59801D0100A040
110 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59801D0110A040
120 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59801D0120A040
130 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59801D0130A040
140 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59801D0140A040
145 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59801D0145A040
150 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59801D0150A040
155 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59801D0155A040
160 ± 5	≤ 550	≥ 1330	≥ 4 k	—	B59801D0160A040

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)



Herausgegeben von EPCOS AG

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