

<b>Sensors</b>	<b>B59801</b>
<b>Limit Temperature Sensors, Probe Assemblies</b>	<b>D 801</b>

**Applications**

- Limit temperature sensor

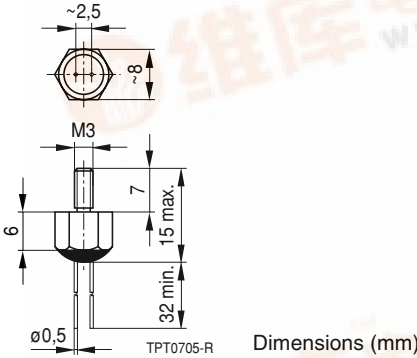
**Features**

- 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**



**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	( $V_{\text{PTC}} \leq 2,5 \text{ V}$ )	$R_N$	$\leq 100$	$\Omega$
Insulation test voltage		$V_{\text{ins}}$	1,5	kV AC
Thermal threshold time		$t_a$	$< 20$	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	$^\circ\text{C}$



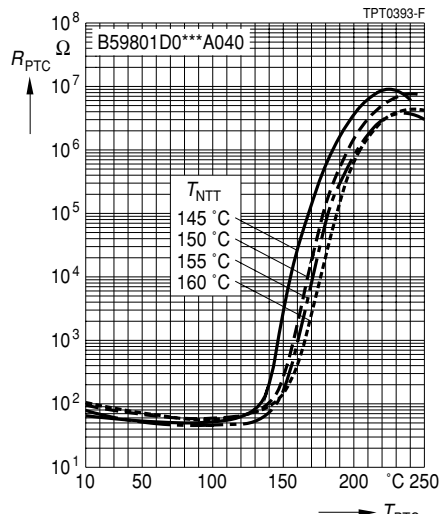
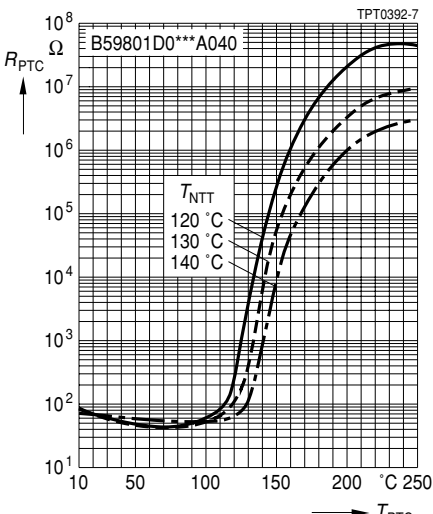
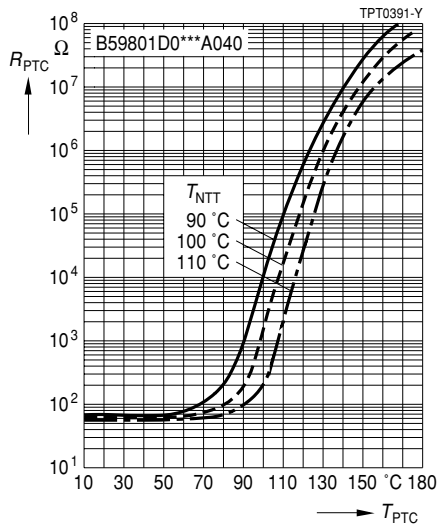
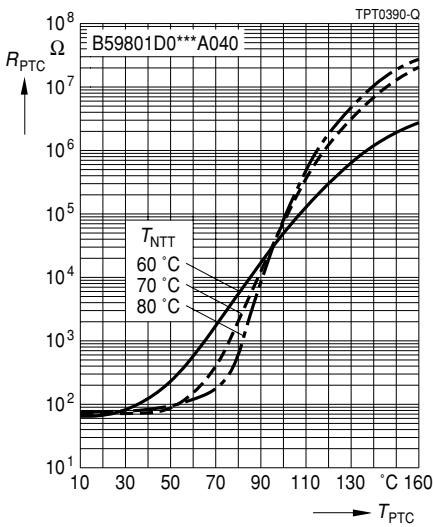


## Electrical specifications and ordering codes

$T_{\text{NTT}} \pm \Delta T$ °C	$R^1$ ( $T_{\text{NTT}} - \Delta T$ ) $\Omega$	$R^1$ ( $T_{\text{NTT}} + \Delta T$ ) $\Omega$	$R^2$ ( $T_{\text{NTT}} + 15 \text{ K}$ ) $\Omega$	$R^1$ ( $T_{\text{NTT}} + 23 \text{ K}$ ) $\Omega$	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

**Characteristics (typical)**

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



oder an unsere Vertriebsgesellschaften im Ausland. Bauelemente können aufgrund technischer E halten. Auskünfte darüber bitten wir unter Angabe des betreffenden Typs ebenfalls über die zuständ zuholen.

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