

Sensors

B59008

Limit Temperature Sensors, Leaded Disks, Coated

C 8

Applications

- Sensors for small measuring points
- Limit temperature monitoring

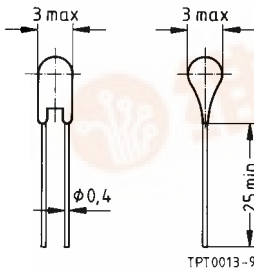
Features

- Tinned leads
- Marked with coded nominal threshold temperature
- Characteristics for nominal threshold temperatures of 90 to 160 °C conform with DIN 44081
- Extremely fast response due to small dimensions

Delivery mode

- Bulk (standard)

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	≤ 250	Ω
Thermal threshold time		t_a	< 3	s
Operating temperature range	$(V \leq V_{\text{meas,max}})$	T_{op}	$-40/T_{\text{NTT}} + 23$	$^{\circ}\text{C}$
	$(V = V_{\max})$	T_{op}	0/+ 40	$^{\circ}\text{C}$



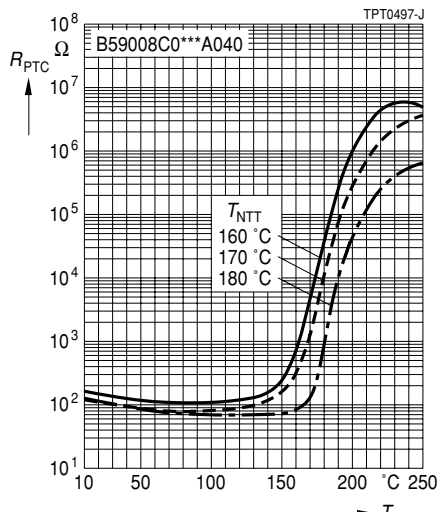
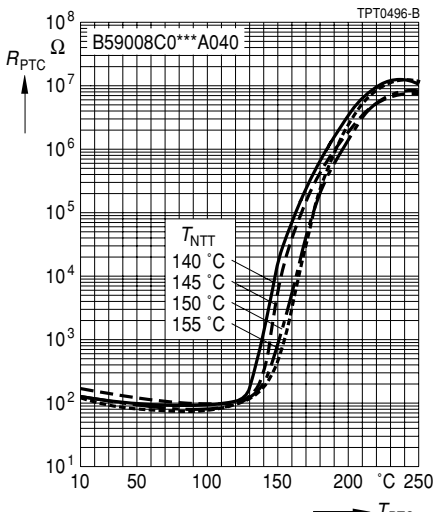
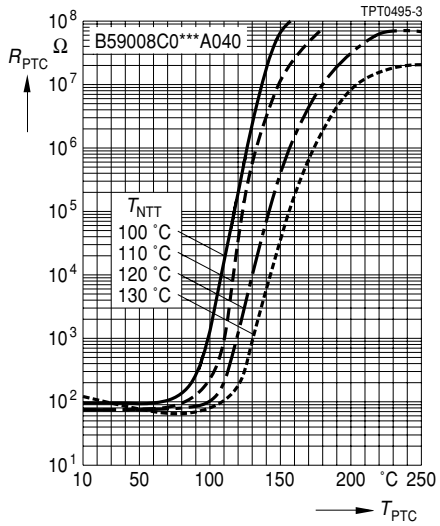
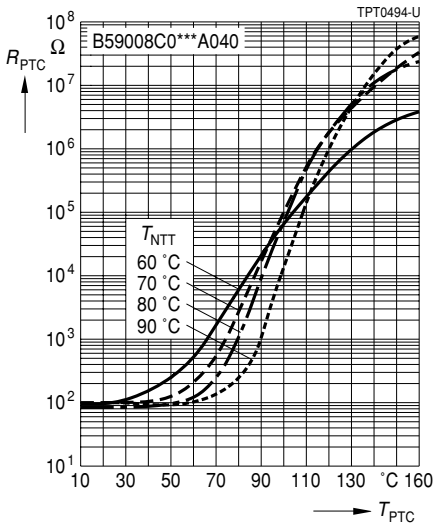
Electrical specifications and ordering codes

$T_{NTT} \pm \Delta T$ °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	Stamp code	Ordering code
60 ± 5	≤ 570	≥ 570	—	$\geq 4\text{ k}$	f	B59008C0060A040
70 ± 5	≤ 570	≥ 570	—	$\geq 4\text{ k}$	g	B59008C0070A040
80 ± 5	≤ 570	≥ 570	—	$\geq 4\text{ k}$	h	B59008C0080A040
90 ± 5	≤ 550	≥ 1330	$\geq 4\text{ k}$	—	i	B59008C0090A040
100 ± 5	≤ 550	≥ 1330	$\geq 4\text{ k}$	—	j	B59008C0100A040
110 ± 5	≤ 550	≥ 1330	$\geq 4\text{ k}$	—	k	B59008C0110A040
120 ± 5	≤ 550	≥ 1330	$\geq 4\text{ k}$	—	l	B59008C0120A040
130 ± 5	≤ 550	≥ 1330	$\geq 4\text{ k}$	—	m	B59008C0130A040
140 ± 5	≤ 550	≥ 1330	$\geq 4\text{ k}$	—	n	B59008C0140A040
145 ± 5	≤ 550	≥ 1330	$\geq 4\text{ k}$	—	o	B59008C0145A040
150 ± 5	≤ 550	≥ 1330	$\geq 4\text{ k}$	—	p	B59008C0150A040
155 ± 5	≤ 550	≥ 1330	$\geq 4\text{ k}$	—	r	B59008C0155A040
160 ± 5	≤ 550	≥ 1330	$\geq 4\text{ k}$	—	s	B59008C0160A040
170 ± 7	≤ 570	≥ 570	—	$\geq 4\text{ k}$	t	B59008C0170A040
180 ± 7	≤ 570	≥ 570	—	$\geq 4\text{ k}$	u	B59008C0180A040

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

Characteristics (typical)

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



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