



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Applications

- Sensors for small measuring points
- Limit temperature monitoring

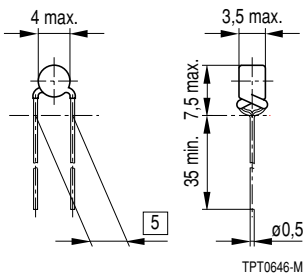
Features

- 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_{\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	$\leq 100^1)$	Ω
Thermal threshold time		t_a	< 5	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	$^\circ\text{C}$

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

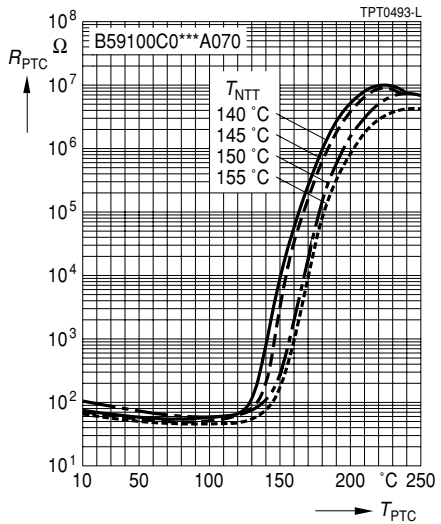
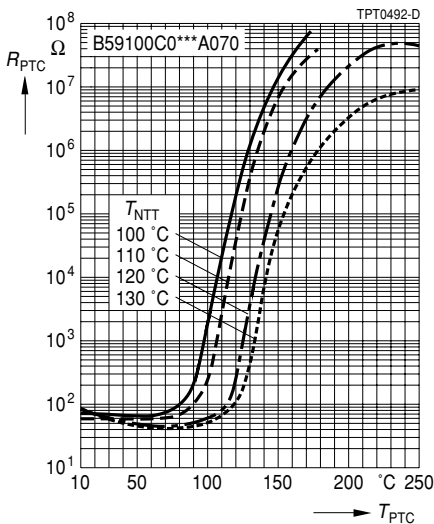
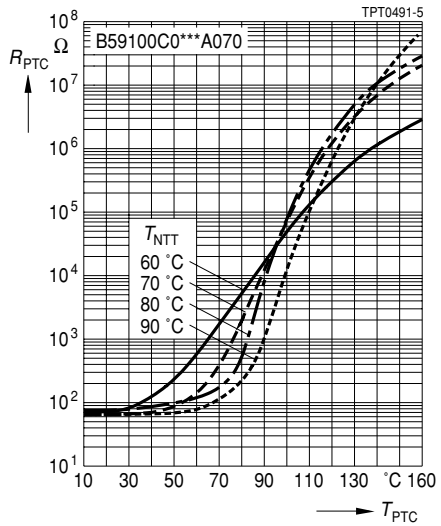
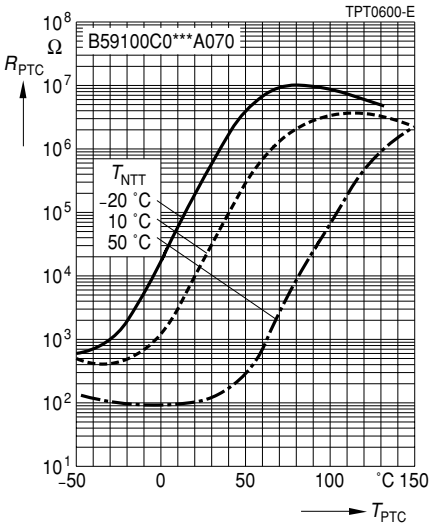
Electrical specifications and ordering codes

$T_{\text{NTT}} \pm \Delta T$ °C	R^1 ($T_{\text{NTT}} - \Delta T$) Ω	R^1 ($T_{\text{NTT}} + \Delta T$) Ω	R^2 ($T_{\text{NTT}} + 15 \text{ K}$) Ω	R^1 ($T_{\text{NTT}} + 23 \text{ K}$) Ω	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) $V_{\text{PTC}} \leq 2,5 \text{ V}$ 2) $V_{\text{PTC}} \leq 7,5 \text{ V}$

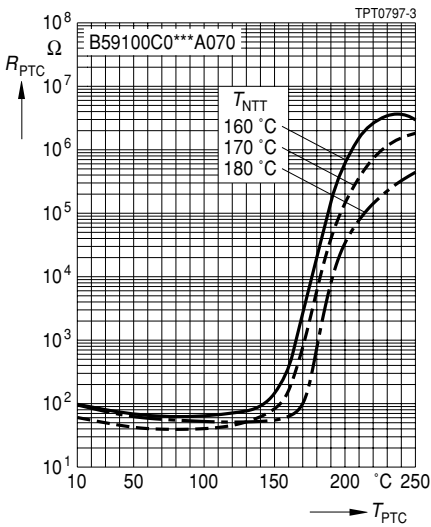
Characteristics (typical)

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



Characteristics (typical)

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



Herausgegeben von EPCOS AG

Unternehmenskommunikation, Postfach 80 17 09, 81617 München, DEUTSCHLAND

☎ ++49 89 636 09, FAX (0 89) 636-2 26 89

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Corporate Communications, P.O. Box 80 17 09, 81617 Munich, GERMANY

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This brochure replaces the previous edition.

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Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.