



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

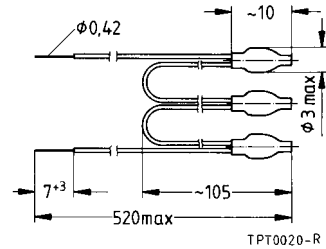


Applications

- Thermal protection of winding in electric motors
- Limit temperature monitoring

Features

- Thermistor pellets with insulating encapsulation in series connection (triple sensor)
- Low-resistance type
- Silver-plated and Teflon-insulated AWG 26 litz wires
- Characteristics for nominal threshold temperatures of 90 up to 160 °C conform with DIN 44082
- Color coding of litz wires to DIN 44082, connecting wires in yellow



Dimensions in mm

Delivery mode

- Bulk

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	≤ 300	Ω
Insulation test voltage		V_{ins}	2,5	kV AC
Thermal threshold time		t_a	< 3	s
Operating temperature range	($V \leq V_{\text{meas,max}}$)	T_{op}	$-25/ T_{\text{NTT}} + 23$	$^\circ\text{C}$
	($V = V_{\max}$)	T_{op}	0/+ 40	$^\circ\text{C}$

Electrical specifications and ordering codes

$T_{\text{NTT}} \pm \Delta T$ $^\circ\text{C}$	$R(T_{\text{NTT}} - \Delta T)$ ($V_{\text{PTC}} \leq 2,5 \text{ V}$) Ω	$R(T_{\text{NTT}} + \Delta T)$ ($V_{\text{PTC}} \leq 2,5 \text{ V}$) Ω	$R(T_{\text{NTT}} + 15 \text{ K})$ ($V_{\text{PTC}} \leq 7,5 \text{ V}$) Ω	$R(T_{\text{NTT}} + 23 \text{ K})$ ($V_{\text{PTC}} \leq 2,5 \text{ V}$) Ω	Ordering code
60 ± 5	≤ 1710	≥ 1710	—	$\geq 30 \text{ k}$	B59300M1060A070
70 ± 5	≤ 1710	≥ 1710	—	$\geq 30 \text{ k}$	B59300M1070A070
80 ± 5	≤ 1710	≥ 1710	—	$\geq 30 \text{ k}$	B59300M1080A070
90 ± 5	≤ 1650	≥ 3990	$\geq 12 \text{ k}$	—	B59300M1090A070
100 ± 5	≤ 1650	≥ 3990	$\geq 12 \text{ k}$	—	B59300M1100A070
110 ± 5	≤ 1650	≥ 3990	$\geq 12 \text{ k}$	—	B59300M1110A070
120 ± 5	≤ 1650	≥ 3990	$\geq 12 \text{ k}$	—	B59300M1120A070
130 ± 5	≤ 1650	≥ 3990	$\geq 12 \text{ k}$	—	B59300M1130A070
140 ± 5	≤ 1650	≥ 3990	$\geq 12 \text{ k}$	—	B59300M1140A070
145 ± 5	≤ 1650	≥ 3990	$\geq 12 \text{ k}$	—	B59300M1145A070
150 ± 5	≤ 1650	≥ 3990	$\geq 12 \text{ k}$	—	B59300M1150A070
155 ± 5	≤ 1650	≥ 3990	$\geq 12 \text{ k}$	—	B59300M1155A070
160 ± 5	≤ 1650	≥ 3990	$\geq 12 \text{ k}$	—	B59300M1160A070

Electrical specifications and ordering codes

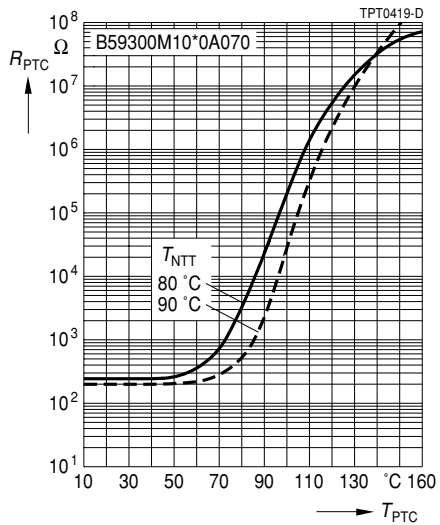
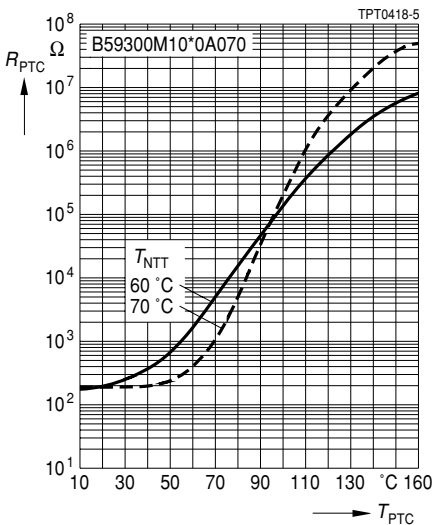
$T_{NTT} \pm \Delta T$ °C	$R(T_{NTT} - \Delta T)$ ($V_{PTC} \leq 2,5 V$) Ω	$R(T_{NTT} + \Delta T)$ ($V_{PTC} \leq 2,5 V$) Ω	$R(T_{NTT} + 15 K)$ ($V_{PTC} \leq 7,5 V$) Ω	$R(T_{NTT} + 23 K)$ ($V_{PTC} \leq 2,5 V$) Ω	Ordering code
170 ± 7	≤ 1710	≥ 1710	—	≥ 30 k	B59300M1170A070
180 ± 7	≤ 1710	≥ 1710	—	≥ 30 k	B59300M1180A070
190 ± 7	≤ 1710	≥ 1710	—	≥ 30 k	B59300M1190A070

Color coding of litz wires (to DIN 44082)

T_{NTT}	°C	Color	T_{NTT}	°C	Color	T_{NTT}	°C	Color
	60	white/grey		120	grey/grey		160	blue/red
	70	white/brown		130	blue/blue		170	white/green
	80	white/white		140	white/blue		180	white/red
	90	green/green		145	white/black		190	black/grey
	100	red/red		150	black/black			
	110	brown/brown		155	blue/black			

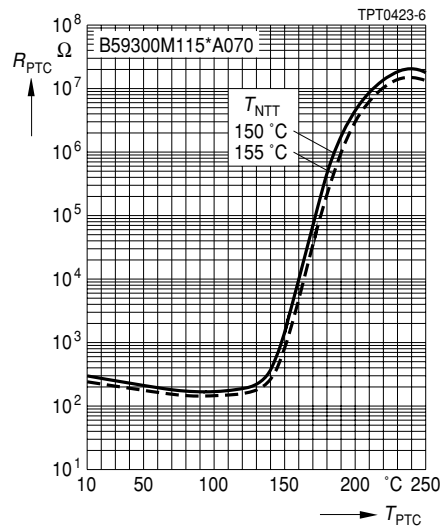
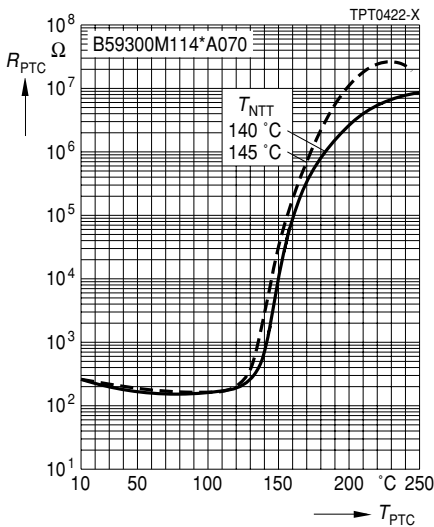
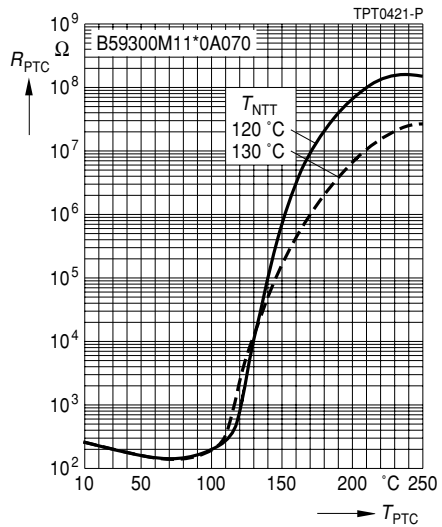
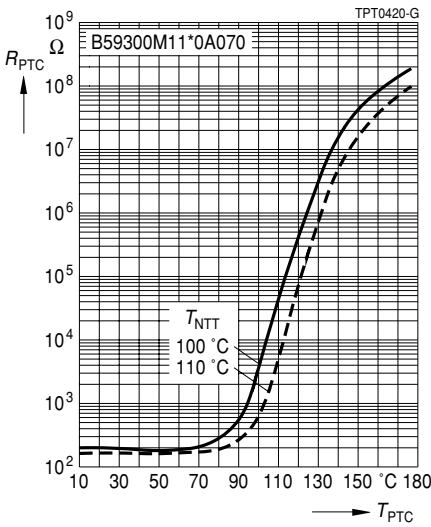
Characteristics (typical)

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



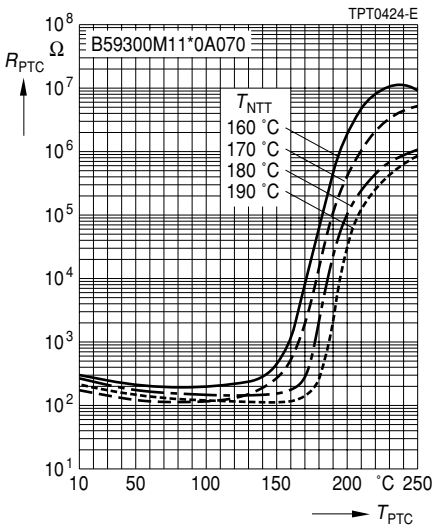
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Characteristics (typical)

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