



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!



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EPCOS Sample Kit 2012

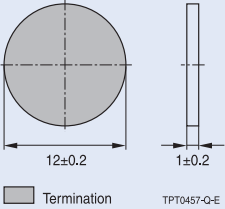
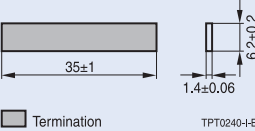
PTC Thermistors

Heating Elements for 12 V Applications



PTC Thermistors

Heating elements for 12 V applications

Type	T _{ref} (typ.) °C	R _{min} (V = V _R) Ω	T _{surf} ¹⁾ (V = V _R) °C	R _R (V _{meas} ≤ 1.5 V) Ω	V _{BD} V	Curvature mm	Ordering code	Dimensional drawing
V_{max} = 30 V DC, V_R = 12 V DC								
A60	0	20 ²⁾	40	≥ 320	> 36	< 0.2	B59060A0000A010	
A60	40	4 ²⁾	70	9 ±30%	> 36	< 0.2	B59060A0040A010	
A60	60	5	80	9 ±30%	> 36	< 0.2	B59060A0060A010	
A60	80	4	95	9 ±30%	> 36	< 0.2	B59060A0080A010	
A60	120	4	130	9 ±30%	> 36	< 0.2	B59060A0120A010	
A60	160	3	165	9 ±30%	> 36	< 0.2	B59060A0160A010	
A60	180	3	185	9 ±30%	> 36	< 0.2	B59060A0180A010	
V_{max} = 20 V DC, V_R = 12 V DC								
R41	80	1.00	110	3.2 ±50%	> 40	< 0.05	B59041R0080A010	
R41	120	1.00	145	3.2 ±50%	> 40	< 0.05	B59041R0120A010	
R41	160	0.75	180	3.2 ±50%	> 40	< 0.05	B59041R0160A010	
R41	180	0.75	200	3.2 ±50%	> 40	< 0.05	B59041R0180A010	
R41	220	1.00	230	6.4 ±50%	> 40	< 0.05	B59041R0220A010	

Application examples:

- A60: Automotive applications such as diesel fuel preheating, defrosting (e.g. spray nozzle heating)/ low-voltage home appliances
- R41: Automotive applications such as diesel fuel preheating, defrosting, additional cabin heating/ low-voltage home appliances

Data sheets are available at: www.epcos.com/ptc_heating

1) Measured between points

2) T (R_{PTC} = R_{min}) < 25 °C

Important information: It is incumbent on the customer to check and decide whether a product is suitable for use in a particular application. Our products are described in detail in our data sheets. Our *Important notes* and the product-specific *Cautions and warnings* must be observed. All relevant information is available through our sales offices.