

EPCOS Sample Kit 2012

# PTC Thermistors

Heating Elements for 12 V Applications



# PTC Thermistors

## Heating elements for 12 V applications

Type	T <sub>ref</sub> (typ.) °C	R <sub>min</sub> (V = V <sub>R</sub> ) Ω	T <sub>surf</sub> <sup>1)</sup> (V = V <sub>R</sub> ) °C	R <sub>R</sub> (V <sub>meas</sub> ≤ 1.5 V) Ω	V <sub>BD</sub> V	Curvature mm	Ordering code	Dimensional drawing
<b>V<sub>max</sub> = 30 V DC, V<sub>R</sub> = 12 V DC</b>								
A60	0	20 <sup>2)</sup>	40	≥ 320	> 36	< 0.2	B59060A0000A010	
A60	40	4 <sup>2)</sup>	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	

<b>V<sub>max</sub> = 20 V DC, V<sub>R</sub> = 12 V DC</b>								
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](http://www.epcos.com/ptc_heating)

1) Measured between points

2) T (R<sub>PTC</sub> = R<sub>min</sub>) < 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.