

EPCOS Sample Kit 2012

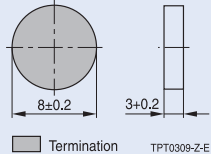
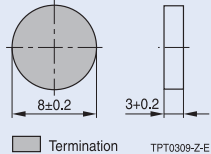
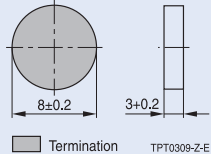
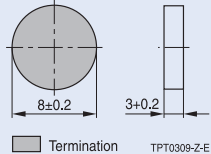
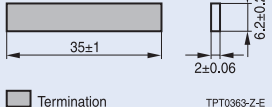
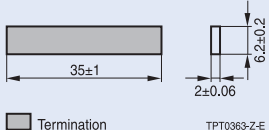
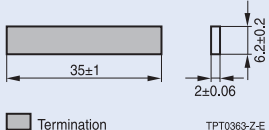
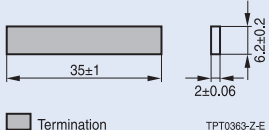
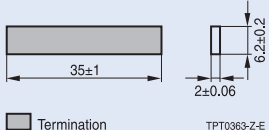
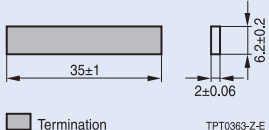
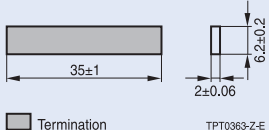
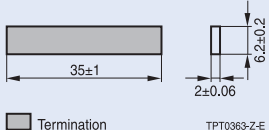
# PTC Thermistors

Heating Elements for 230 V Applications



# PTC Thermistors

## Heating elements for 230 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> = 265 V AC, V<sub>R</sub> = 230 V AC</b>								
A53	110	960	135	4200 ±35%	500	< 0.2	B59053A0110A010	
A53	150	700	170	4200 ±35%	500	< 0.2	B59053A0150A010	
A53	180	530	200	4200 ±35%	500	< 0.2	B59053A0180A010	
A53	220	640	235	6000 ±35%	500	< 0.2	B59053A0220A010	
R102	50	225 <sup>2)</sup>	100	700 ±50%	400	< 0.05	B59102R0050A010	
R102	70	130	115	700 ±50%	400	< 0.05	B59102R0070A010	
R102	110	100	145	700 ±50%	400	< 0.05	B59102R0110A010	
R102	130	105	160	700 ±50%	400	< 0.05	B59102R0130A010	
R102	150	90	180	700 ±50%	400	< 0.05	B59102R0150A010	
R102	180	66	205	700 ±50%	400	< 0.05	B59102R0180A010	
R102	220	80	240	1000 ±50%	400	< 0.05	B59102R0220A010	
R102	270	85	280	1300 ±50%	340	< 0.05	B59102R0270A010	

### Application examples:

- A53: Home appliances such as washing machine doorlocks, thermal actuators, insecticide and perfume vaporizers
- R102: Home appliances such as hair curlers, fan heaters, coffee machines, glue guns

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.