



Sample Kit 2011

Inrush Current Limiters

Self-Protecting PTC Resistors



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Self-protecting PTC resistors

V_{\max} [V AC]	$V_{\text{link, max}}$ [V DC]	R_R [Ω]	ΔR_R [%]	T_{ref} (typ.) [°C]	C_{th} [J/K]	Dimensions in mm			Ordering code	Dimensional drawing [mm]
						$w_{\max.}$	$h_{\max.}$	$th_{\max.}$		
In phenolic resin plastic case, operating cycles at V_{\max} (charging of capacitor)										$N_c > 100000$ cycles
260	360	22	±25	130	2.3	18.0	23.0	14.0	B59105J0130A020	<p>TPT0665-F-E 1 mm pin width</p>
440	620	56	±25	130	2.3	18.0	23.0	14.0	B59107J0130A020	
560	800	100	±25	130	2.3	18.0	23.0	14.0	B59109J0130A020	

Leaded disks, operating cycles at V_{\max} (charging of capacitor)										$N_c > 50000$ cycles
260	360	25	±25	115	1.0	12.5	16.5	5.0	B59750B0120A070 ¹⁾	<p>TPT1087-H-E</p>
260	360	50	±25	115	1.4	12.5	16.5	7.0	B59751B0120A070	
260	360	80	±25	115	1.4	12.5	16.5	7.0	B59752B0120A070	
440	620	120	±25	115	1.4	12.5	16.5	7.0	B59753B0120A070	
440	620	150	±25	115	1.4	12.5	16.5	7.0	B59754B0120A070	
560	800	500	±25	110	1.4	12.5	16.5	7.0	B59755B0115A070	

The silver metallization layer of uncoated PTC thermistors can discolor over time. This has no effect on electrical or mechanical properties.

Leaded disks, coated, operating cycles at V_{\max} (charging of capacitor)										$N_c > 50000$ cycles
440	620	120	±25	130	2.1	15.0	19.0	7.5	B59412C1130B070	<p>TPT1088-J</p>
440	620	56	±25	130	2.1	15.0	19.0	7.5	B59451C1130B070	

Applications

- For smoothing and DC link capacitors
- To replace high-power fixed resistors for capacitor charging

Further information: www.epcos.com/components → Direct Link: 1077, Applications & Cases, Fail-safe charging

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.