

Sample Kit 2014

# Inrush Current Limiters

Self-Protecting PTC Resistors



# Inrush Current Limiters

## Self-protecting PTC resistors

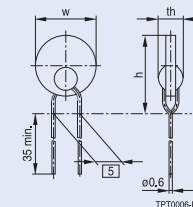
$V_{\max}$ [V AC]	$V_{\text{link, max}}$ [V DC]	$R_R$ [Ω]	$\Delta R_R$ [%]	$T_{\text{ref (typ.)}}$ [°C]	$C_{\text{th}}$ [J/K]	Dimensions in mm				Ordering code	Dimensional drawing [mm]
						$w_{\max.}$	$h_{\max.}$	$th_{\max.}$	$\varnothing d$		

### 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	0.6	B59750B0120A070
260	360	80	±25	115	1.4	12.5	16.5	7.0	0.6	B59752B0120A070
440	620	120	±25	115	1.4	12.5	16.5	7.0	0.6	B59753B0120A070
440	620	150	±25	115	1.4	12.5	16.5	7.0	0.6	B59754B0120A070

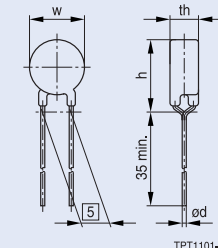
The silver metallization layer of uncoated PTC thermistors can discolor over time. This has no effect on electrical or mechanical properties.



### Leaded disks, coated, operating cycles at $V_{\max}$ (charging of capacitor)

$N_c > 50000$  cycles

260	360	25	±25	115	1.0	12.5	16.5	5.0	0.6	B59750C0120A070
260	360	50	±25	115	1.4	12.5	16.5	7.0	0.6	B59751C0120A070
440	620	56	±25	130	2.1	15.0	19.0	7.5	0.8	B59451C1130B070
440	620	120	±25	130	2.1	15.0	19.0	7.5	0.8	B59412C1130B070
560	800	500	±25	110	1.4	12.5	16.5	7.0	0.6	B59755C0115A070



### In phenolic resin plastic case, operating cycles at $V_{\max}$ (charging of capacitor)

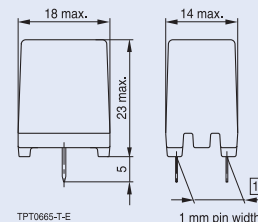
$N_c > 100000$  cycles

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

## Applications

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

Further information: [http://www.epcos.com/761864\\_ptcid](http://www.epcos.com/761864_ptcid)



**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.

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