Sample Kit 2016

Inrush Current Limiters

Self-Protecting PTC Resistors

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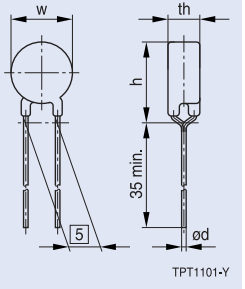
Inrush Current Limiters

Self-protecting PTC resistors

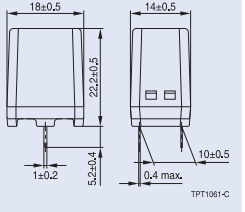
V_{max} [V AC]	$V_{link, max}$ [V DC]	R_R [Ω]	ΔR_R [%]	$T_{ref (typ.)}$ [°C]	C_{th} [J/K]	Dimensions in mm $w_{max.}$	$h_{max.}$	$th_{max.}$	ø d	AEC-Q200	Ordering code
Leaded disks, coated											
280	400	25	±25	120	1.0	12.5	16.5	5.0	0.6	✓	B59750C0120A070
280	400	50	±25	120	1.4	12.5	16.5	7.0	0.6	–	B59751C0120A070
440	620	56	±25	130	2.1	15.0	19.0	7.5	0.8	✓	B59451C1130B070
440	620	120	±25	120	1.4	13.0	18.0	7.5	0.6	–	B59753C0120A070
440	620	120	±25	130	2.1	15.0	19.0	7.5	0.8	✓	B59412C1130B070
440	620	150	±25	120	1.4	13.0	18.0	7.5	0.6	–	B59754C0120A070
440	620	500	±25	120	0.6	9.0	13.5	7.5	0.6	–	B59773C0120A070
560	800	500	±25	115	1.4	12.5	16.5	7.0	0.6	–	B59755C0115A070

Dimensional drawing [mm]



PTC thermistors in housing

V_{max} [V AC]	$V_{link, max}$ [V DC]	R_R [Ω]	ΔR_R [%]	$T_{ref (typ.)}$ [°C]	C_{th} [J/K]	Dimensions in mm $w_{max.}$	$h_{max.}$	$th_{max.}$	ø d	AEC-Q200	Ordering code
280	400	22	±25	130	2.3	18.5	22.7	14.5	–	✓	B59215J0130A020
440	620	56	±25	130	2.3	18.5	22.7	14.5	–	✓	B59217J0130A020
560	800	100	±25	130	2.3	18.5	22.7	14.5	–	✓	B59219J0130A020



Features

- Self-protecting in case of malfunction of short-circuit relay or internal short circuit of capacitor
- Inrush current limiters are not damaged when directly connected to V_{max} even without additional current limitation

Applications

- Inrush current limiter (charging resistor) for smoothing and DC link capacitors

Further information: http://www.epcos.com/761864_ptcicl

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