



PTC Thermistors for Telecom

Telecom Pair Protector (TPP)

Series/Type: **B598****

Date: November 2003

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Applications

- Overcurrent protection for line cards

Features

- Two resistance matched PTCs in a plastic housing
- Compliant with ITU-T K20, K21
 - basic level lightning surges (10/700 μ s)
 - basic level power induction (600 V, 1 A, 0.2 s)
 - power contact criteria A/B (230 V, 15 min.)
- Suitable for continuous connection to mains voltages of 110/230 VAC in tripped (high ohmic) condition
- For surface mounting onto PCB
- Housing material according to UL94-V0

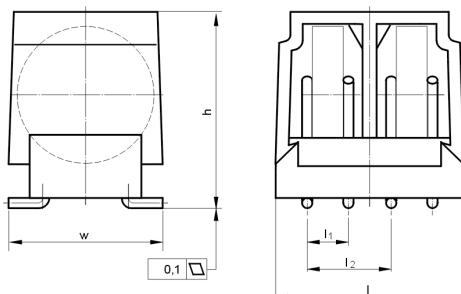
Options

- Alternative resistances on request

Delivery mode

- Blister tape

Dimensional drawing



Dimensions in mm

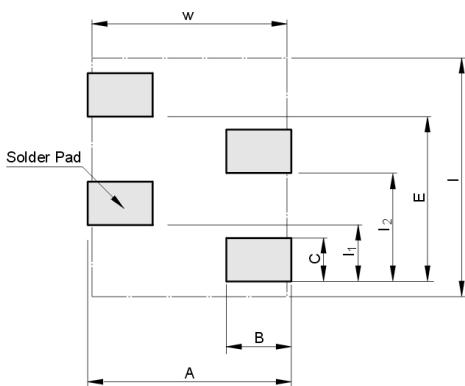
Type	I_{max}	w_{max}	h_{max}	Disk \varnothing	$l1$	$l2$
T1850	11.0	9.0	11.5	8.0	2.6	5.0
T1835	11.0	9.0	11.5	8.0	2.6	5.0
T1825	11.0	9.0	11.5	8.0	2.6	5.0

General technical data

Rated voltage	V_R	230	V
Max. switching voltage	V_{Smax}	245	V
Tolerance of R_R	ΔR_R	± 20	%
Operating temperature range	T_{op}	$-40/+125$	°C
Resistance matching in one housing	$ R_2 - R_1 $	<1.0	Ω
Insulating test voltage between PTC1 and PTC2	V_{ins}	>3	kV

Electrical specifications

Type	R_R Ω	R_{min} Ω	I_R ($T_A = 25$ °C; $V = V_R$) mA _{rms}	I_S ($T_A = 25$ °C; $V = V_R$) mA _{rms}	I_{Smax} ($V = 245$ V) A _{rms}	t_S ($T_A = 25$ °C) s	Ordering code
T1850	50	30	90	190	2.5	< 0.2	B59850T1120A062
T1835	35	23	100	200	4.0	< 0.2	B59835T1120A062
T1825	25	15	130	260	2.8	< 0.3	B59825T1120A062

Recommended solder pad layout


Type	Component length "l"	Component width "w"	$l1$	$l2$	A	B	C	E
T1850	11.0	9.0	2.6	5.0	10.0	3.2	2.0	7.6
T1835	11.0	9.0	2.6	5.0	10.0	3.2	2.0	7.6
T1825	11.0	9.0	2.6	5.0	10.0	3.2	2.0	7.6