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PTC Thermistors for Telecom

MDF Applications, Leaded Disks

Series/Type: B59***

Release:

Date:

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Applications

- Overcurrent protection in telecom equipment (switching systems and customer premises equipment)

Features

- Compliant with ITU-T K20, K21, K45
 - 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
- Narrow resistance tolerance

Options

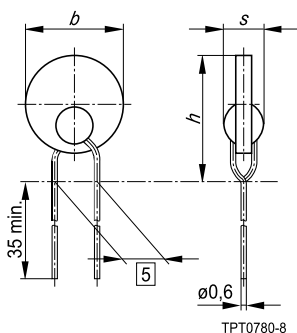
- Alternative tolerances and resistances on request

Delivery mode

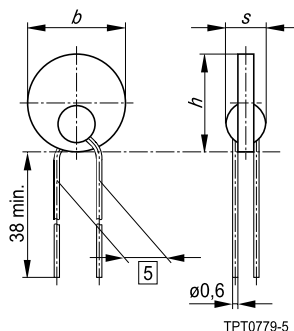
- Cardboard tape, reeled (standard) or in Ammo pack (on request); cardboard strips (on request)
- Exception: B1610, cardboard strips (standard), cardboard tape or Ammo pack on request

Dimensional drawings

Kinked leads



Straight leads



Dimensions (mm)

Type	Leads	b _{max}	h _{max}	s _{max}
B1048	kinked	7.7	12.0	5.0
B1042	kinked	8.2	12.1	4.0
B1610	kinked	10.2	13.1	5.0
B1012	kinked	6.0	10.0	4.0
B1084	kinked	6.6	9.5	4.0
B1048	straight	7.7	7.7	5.0

Type	Leads	b _{max}	h _{max}	s _{max}
B1042	straight	8.2	8.2	4.0
B1012	straight	6.0	6.0	4.0
B1084	straight	6.6	6.6	5.0
B1069	straight	5.2	5.2	3.2
B1069	straight	5.2	5.2	3.2



Telecom	B59***
MDF Applications, Leaded Disks	B1***

General technical data

Rated voltage	V_R	60	VDC
Max. switching voltage	V_{Smax}	265	VAC
Tolerance of R_R	ΔR_R	± 20	%
Operating temperature range	T_{op}	$-25/+125$	$^{\circ}C$
	T_{op}	$0/+60$	$^{\circ}C$

Electrical specifications and ordering codes

Type	R_R	$R_{25,match}$ (per packing unit)	I_R @ $25^{\circ}C$	I_R @ $40^{\circ}C$	I_S @ $25^{\circ}C$	I_{Smax} @ 230 VAC	t_S @ I_{Smax} 230 VAC	Ordering code
	Ω	Ω	mA	mA	mA	A	s	

Leads = kinked

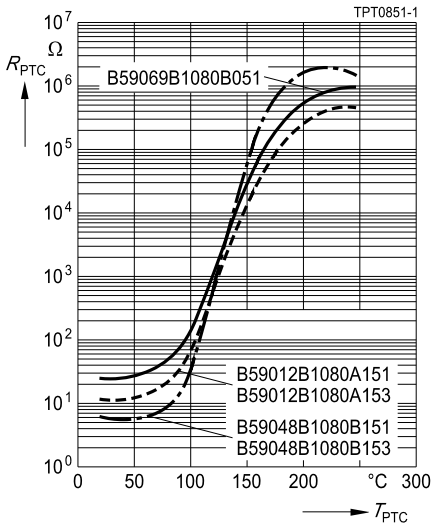
B1012	12	± 0.5	100	85	300	1.0	< 2.0	B59012B1080A151
B1042	10	± 0.5	150	135	300	1.0	< 7.0	B59042B1120B151
B1048	6	± 0.4	150	120	250	2.5	< 1.8	B59048B1080B151
B1084	20	± 0.25	145	100	250	3.0	< 0.2	B59084B1120A151
B1610	10	not matched	150	135	300	10.0	< 0.2	B59610B1120A070

Leads = straight

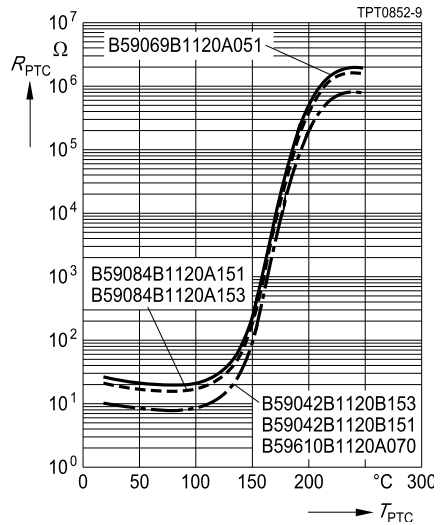
B1012	12	± 0.5	100	85	300	1.0	< 2.0	B59012B1080A153
B1042	10	± 0.5	150	135	300	1.0	< 7.0	B59042B1120B153
B1048	6	± 0.4	150	120	250	2.5	< 1.8	B59048B1080B153
B1069	25	not matched	85	75	170	1.0	< 0.7	B59069B1120A051
B1069	25	not matched	55	45	110	1.0	< 0.4	B59069B1080B051
B1084	20	± 0.25	145	100	250	3.0	< 0.2	B59084B1120A153

Characteristics (typical)

PTC resistance R_{PTC} versus
PTC temperature T_{PTC}
(measured at low signal voltage)



PTC resistance R_{PTC} versus
PTC temperature T_{PTC}
(measured at low signal voltage)



Rated current I_R versus ambient temperature T_A
(measured in still air)

