

PTC Thermistors for Telecom

MDF Applications, Leaded Disks

Series/Type: B59***

Release:

Date:

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Telecom	B59***
MDF Applications, Leaded Disks	R1***

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

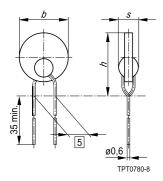
Alternative tolerances and resistances on request

Delivery mode

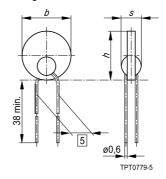
- Cardboard tape, reeled (standard) or in Ammo pack (on request); cardboard strips (on request)
- Exception: B1610, cardboard strips (standard), cardboard tape or Ammo pack on request

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

Туре	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***
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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	(V = 0)	T _{op}	-25/+125	°C
	(V = 230 V)	T _{op}	0/+60	°C

Electrical specifications and ordering codes

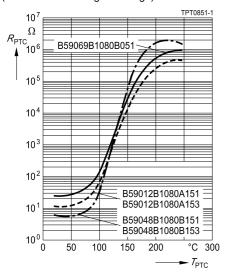
Type	R_R	R _{25,match}	I_R	I_R	Is	I _{Smax}	ts	Ordering code
		(per	@	@	@	@	@ I _{Smax} ,	
		packing	25 °C	40 °C	25 °C	230 VAC	230 VAC	
		unit)						
	Ω	Ω	mA	mA	mA	Α	s	
Leads = kinked								
B1012	12	±0.5	100	85	300	1.0	< 2.0	B59012B1080A151
B1042	10	±0.5	150	135	300	1.0	< 7.0	B59042B1120B151
B1048	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	150	135	300	10.0	< 0.2	B59610B1120A070
		matched						
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	85	75	170	1.0	< 0.7	B59069B1120A051
		matched						
B1069	25	not	55	45	110	1.0	< 0.4	B59069B1080B051
		matched						
B1084	20	±0.25	145	100	250	3.0	< 0.2	B59084B1120A153



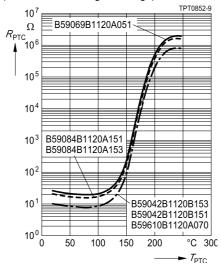
Telecom B59***
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Characteristics (typical)

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)

