



Telecom

B59\*\*\*

Line Card Applications, Leaded Disks

B 10\*\*, B 11\*\*, B 16\*\*, C 10\*\*

**Applications**

- Overcurrent protection for line cards

**Features**

- Compliant with ITU-T K20, K21, K45
  - basic level lightning surges (10/700  $\mu$ 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**

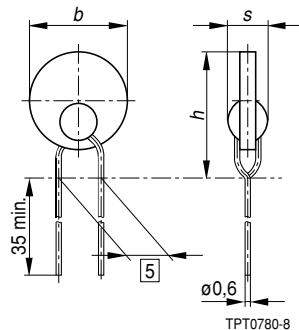
- Alternative tolerances and resistances on request

**Delivery mode**

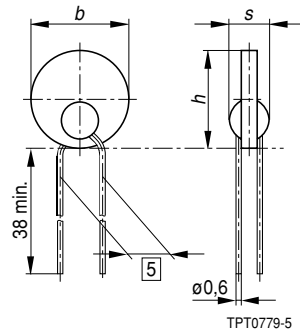
- Cardboard tape, reeled (standard) or in AMMO pack (on request); cardboard strips (on request)
- Exception: B 1610, cardboard strips (standard), cardboard tape or AMMO pack on request

**Dimensional drawings**

Kinked leads



Straight leads



**Dimensions (mm)**

Type	Leads	$b_{max}$	$h_{max}$	$s_{max}$
B 1610	kinked	10,2	13,1	5,0
B 1042	kinked	8,2	12,1	4,0
B 1042	straight	8,2	8,2	4,0
B 1045	kinked	6,6	9,5	4,0
B 1045	straight	6,6	6,6	4,0

1) C 1077 coated type

Type	Leads	$b_{max}$	$h_{max}$	$s_{max}$
B 1008	kinked	8,2	12,1	4,0
B 1008	straight	8,2	8,2	4,0
B 1603	kinked	10,2	12,6	5,0
B 1184	kinked	8,2	12,1	5,0
B 1184	straight	8,2	8,2	5,0
C 1077 <sup>1)</sup>	kinked	8,5	12,5	4,5



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**General technical data**

Rated voltage	$V_N$	60	VDC
Resistance tolerance	$\Delta R_N$	$\pm 20\%$	
Operating temperature range ( $V = 0$ ) ( $V = 230\text{ V}$ )	$T_{op}$	- 25/+ 125	$^{\circ}\text{C}$
	$T_{op}$	0/+ 60	$^{\circ}\text{C}$
Resistance matching per reel	$R_{25, match}$	$\pm 0,5^1)$	$\Omega$

**Electrical specifications and ordering codes**

Type	$R_N$ $\Omega$	$R_{min}$ $\Omega$	$I_N$ @ 25 $^{\circ}\text{C}$ mA	$I_N$ @ 70 $^{\circ}\text{C}$ mA	$I_S$ @ 25 $^{\circ}\text{C}$ mA	$I_{Smax}$ @ 230 VAC A	$t_S$ @ $I_{Smax}$ , 230 VAC s	Ordering code
Kinked leads, maximum switching voltage $V_{Smax} = 265\text{ VAC}$								
B 1610 <sup>1)</sup>	10	6,0	150	105	300	10,0	< 0,2	B59610B1120A070
B 1042	10	6,5	150	105	300	1,0	< 7,0	B59042B1120B151
B 1045	25	16	100	70	220	3,0	< 0,2	B59045B1120B151
B 1008	25	16	120	90	300	3,0	< 0,4	B59008B1130A051
B 1603	25	16	100	70	200	1,5	< 3,0	B59603B1120B157
B 1184	50	30	90	50	190	2,5	< 0,2	B59184B1120A151
Straight leads, maximum switching voltage $V_{Smax} = 265\text{ VAC}$								
B 1042	10	6,5	150	105	300	1,0	< 7,0	B59042B1120A153
B 1045	25	16	100	70	220	3,0	< 0,2	B59045B1120B153
B 1008	25	16	120	90	300	3,0	< 0,4	B59008B1130A153
B 1184	50	30	90	50	190	2,5	< 0,2	B59184B1120B153
Kinked leads, coated type, maximum switching voltage $V_{Smax} = 600\text{ VAC}$								
C 1077	55	38	55	30	200	3,0	< 0,2	B59077C1100B151

1) B 1610 not matched



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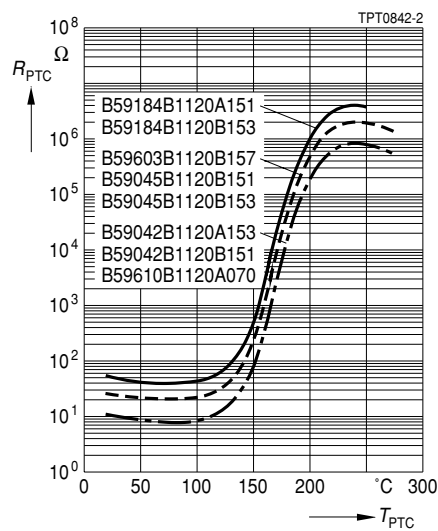
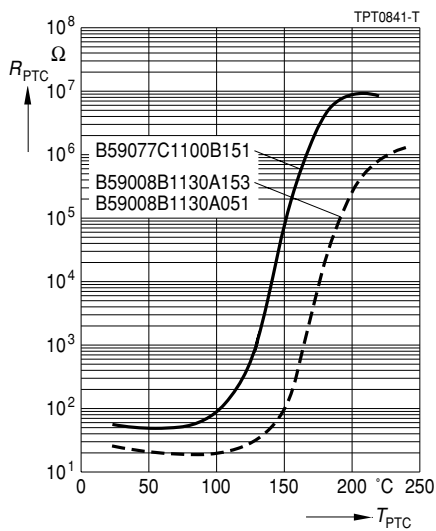
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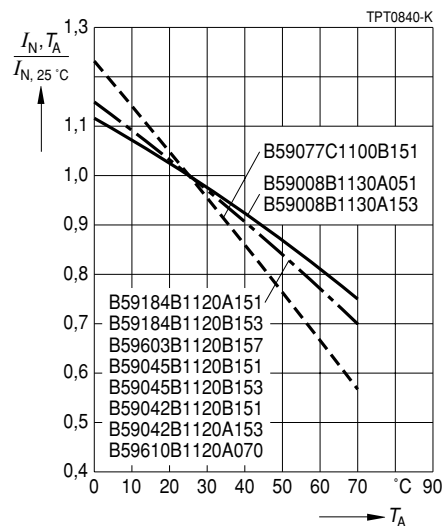
B 10\*\*, B 11\*\*, B 16\*\*, C 10\*\*

**Characteristics (typical)**

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



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



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