

## 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 continous connection to mains voltages of 110/230 VAC in tripped (high ohmic) condition
- Narrow resistance tolerance

## Options

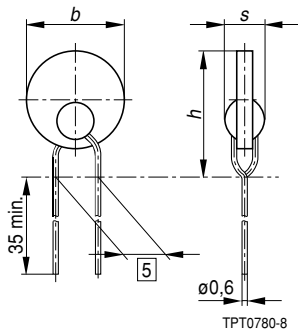
- Alternative tolerances and resistances on request

## Delivery mode

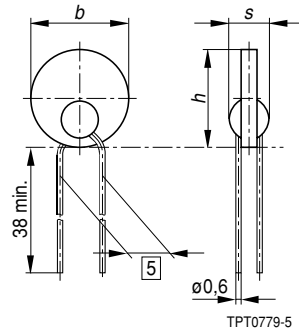
- Cardboard tape, reeled (standard) or in AMMO pack (on request); cardboard strips (on request)
- Exception: B 1610, cardboard strips (standard), cardboard tape or AMMO pack on request

## 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        |

|                                      |                                |
|--------------------------------------|--------------------------------|
| Telecom                              | B59***                         |
| Line Card Applications, Leaded Disks | B 10**, B 11**, B 16**, C 10** |

### General technical data

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

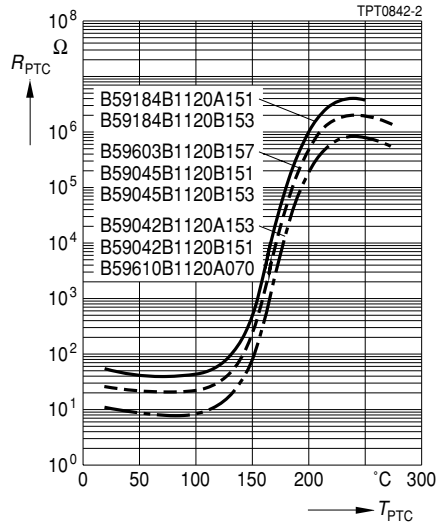
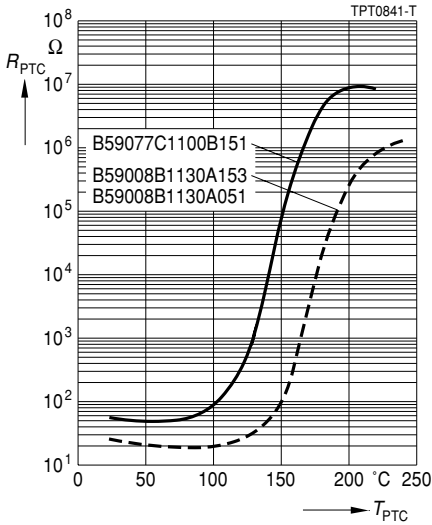
### Electrical specifications and ordering codes

| Type                                                                               | $R_N$<br>$\Omega$ | $R_{\min}$<br>$\Omega$ | $I_N$<br>@<br>25 $^{\circ}\text{C}$<br>mA | $I_N$<br>@<br>70 $^{\circ}\text{C}$<br>mA | $I_S$<br>@<br>25 $^{\circ}\text{C}$<br>mA | $I_{S\max}$<br>@<br>230 VAC<br>A | $t_S$<br>@ $I_{S\max}$ ,<br>230 VAC<br>s | Ordering code   |
|------------------------------------------------------------------------------------|-------------------|------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------|-----------------|
| Kinked leads, maximum switching voltage $V_{S\max} = 265 \text{ VAC}$              |                   |                        |                                           |                                           |                                           |                                  |                                          |                 |
| 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 $V_{S\max} = 265 \text{ VAC}$            |                   |                        |                                           |                                           |                                           |                                  |                                          |                 |
| 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 $V_{S\max} = 600 \text{ VAC}$ |                   |                        |                                           |                                           |                                           |                                  |                                          |                 |
| C 1077                                                                             | 55                | 38                     | 55                                        | 30                                        | 200                                       | 3,0                              | < 0,2                                    | B59077C1100B151 |

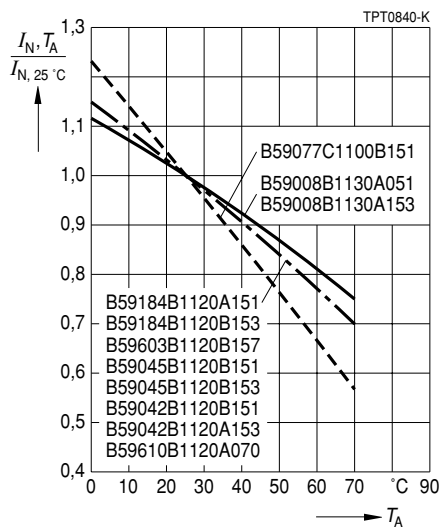
1) B 1610 not matched

### 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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