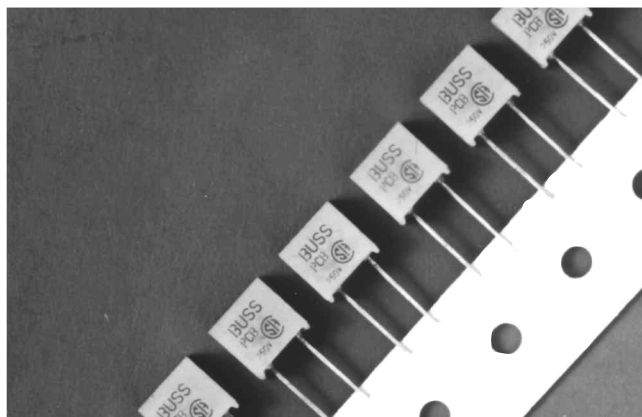


## Printed Circuit Board Fuses

## PC-Tron® Subminiature Fuses

PC-Tron®  
Series

CATALOG SYMBOL: PCB, PCC, PCF, PCH, PCD, PCE,  
PCG & PCI  
PC-TRON SUBMINIATURE FUSES

## Electrical Ratings

| Catalog Symbol      | Amps      | VAC | AC Interrupting             | VDC | DC Interrupting |
|---------------------|-----------|-----|-----------------------------|-----|-----------------|
| PCB, PCC, PCF & PCH | 0.5 - 2.5 | 250 | 50A at 250V<br>10kA at 125V | 450 | 300 - 5900A     |
| PCB, PCC, PCF & PCH | 2.6 - 3.0 | 250 | 50A at 250V<br>10kA at 125V | 350 | 300 - 4400A     |
| PCD, PCE, PCG & PCI | 5.0       | 125 | 10kA at 125V                | 250 | 300 - 4200A     |

## Time-Current Characteristics

Carry 100% of rating for 4 hrs. minimum. Open at 200% of rating in 10 sec. maximum.  
(Non-Time-Delay. . .extremely low let-through)

## Agency Approvals

PCB, PCC, PCD, PDE, PCF, PCG, PCH, and PCI — U.L. Recognized; File E19180, Guide JDYX2.

PCB, PCC, PCD, PCF, PCG, PCH, PCI, and PDE — CSA Certified; File 42731, Class 1421-01.

## Dimensions and Material

Body: 0.350" x 0.350" x 0.184"; High temperature plastic.  
Leads: 0.020" x 0.015" x 0.100" (short) 0.750" (full)  
(tape & reel) (Tin-plated copper).

## Mounting Socket

Available as option. (Specify catalog number BK/PCS (100-in) and short fuse lead length — PCC or PCE)

## Cold Resistance Data

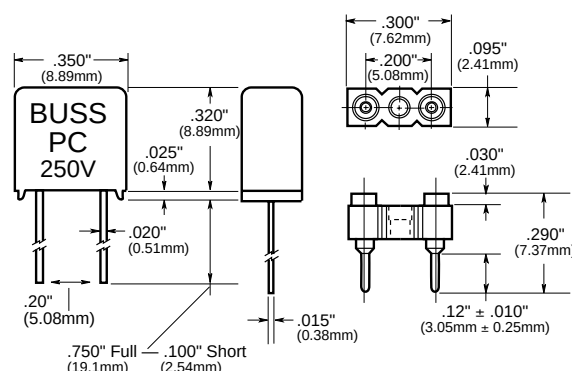
## (10% Rated Current) Nominal Value

|             |               |            |               |
|-------------|---------------|------------|---------------|
| 1/2A — 1.4Ω | 3/4A — .72Ω   | 1A — .43Ω  | 1-1/2A — .24Ω |
| 2A — .15Ω   | 2-1/2A — .10Ω | 3A — .072Ω | 5A — .023Ω    |

Dimensional Data: All tolerances  $\pm .005"$   
 $\pm .13 \text{ mm}$

## Standard Fuse (PCB, PCD)

## Socket (PCS)



## Packaging &amp; Ordering Information:

## Standard Fuse

| Packaging Code           |
|--------------------------|
| Blank—Std. Pack (5-in)   |
| BK/ Bulk (100-in)        |
| TR/ Tape & Reel (500-in) |

| PC                                     |
|----------------------------------------|
| Catalog Symbol                         |
| B - Full lead length. (250V) (1/2-3A)  |
| C - Short lead length. (250V) (1/2-3A) |
| D - Full lead length. (125V) (5A)      |
| E - Short lead length.* (125V) (5A)    |

| Ampere Rating                            |
|------------------------------------------|
| (1/2, 3/4, 1, 1-1/2, 2, 2-1/2, 3, and 5) |
| (5A available only as PCD, PCE or PCG)   |

## Socket

| BK/                | PCS            |
|--------------------|----------------|
| Packaging Code     | Catalog Symbol |
| Bulk Pack (100-in) |                |

\*Note—Short lead length not available in tape-and-reel packaging.  
Note—Hi-Rel solderability applications should specify solder-dipped leads by adding -SD suffix to part number.

The radial lead package of the PC-Tron® is ideal for auto insertion using standard industry equipment. The 0.2" lead spacing aids ease of design. Standard wave soldering techniques will not affect the electrical performance of this unique fuse. Due to its molded construction, the device is unaffected by the board washing process. These features greatly reduce the product installation cost while increasing reliability.

The PC-Tron® is available in a wide variety of options offering flexibility to the design engineer. Available in standard pack (5-in), bulk (100-in), and tape and reel. In addition, the PC-Tron® may be ordered with short (approximately 0.10") or long (0.75") lead length. The tape and reel comes standard at 0.75".

The short lead length may be used with the optional socket. The auto insertable socket allows field replacement of the PC-Tron® subminiature fuse.

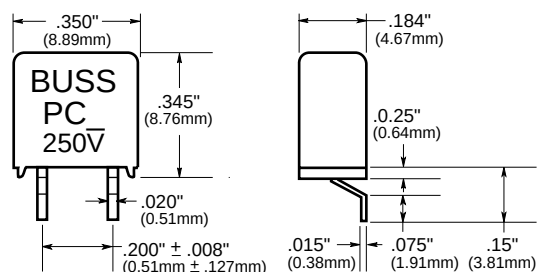
CE CE logo denotes compliance with European Union Low Voltage Directive (50-1000 VAC, 75-1500 VDC). Refer to BIF document #8002 or contact Bussmann Application Engineering at 314-527-1270 for more information.

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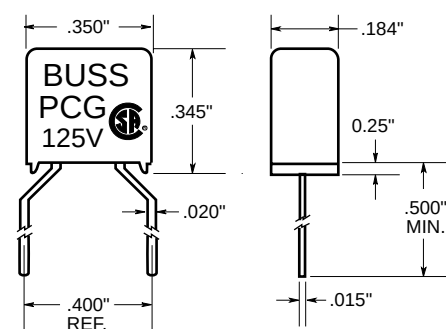
**Dimensional Data: All tolerances**  $\pm .005"$   
 $\pm .13 \text{ mm}$

**Surface Mount Fuse (PCH, PCI)****Packaging & Ordering Information:****Standard Fuse**

| Packaging Code |
|----------------|
| Std. — (5-in)  |
| BK/ Bulk       |

| PC             |
|----------------|
| Catalog Symbol |
| H - 1/2 — 3A   |
| I - 5A         |

| Ampere Rating                            |
|------------------------------------------|
| (1/2, 3/4, 1, 1-1/2, 2, 2-1/2, 3, and 5) |
| (5A available only as PCI)               |

**Dimensional Data (PCF, PCG)****Packaging & Ordering Information:**

Fuse with 0.4" Lead Spacing (contact factory for availability)

| Packaging Code |
|----------------|
| Std. — (5-in)  |
| BK/ Bulk       |

| PC             |
|----------------|
| Catalog Symbol |
| F - 1/2 — 3A   |
| G - 5A         |

| Ampere Rating                            |
|------------------------------------------|
| (1/2, 3/4, 1, 1-1/2, 2, 2-1/2, 3, and 5) |
| (5A available only as PCG)               |

**Max. Total Clearing I<sup>2</sup>t (Amps<sup>2</sup> Sec.)**

| Amp Rating | 125 Volts | 1,000A | 250 Volts | 10,000A | 35A & 50A |
|------------|-----------|--------|-----------|---------|-----------|
| 1/2A       | 0.006     | 0.006  | 0.006     | 0.006   | 0.006     |
| 3/4A       | 0.016     | 0.016  | 0.016     | 0.016   | 0.016     |
| 1A         | 0.020     | 0.020  | 0.020     | 0.020   | 0.020     |
| 1-1/2A     | 0.090     | 0.090  | 0.090     | 0.090   | 0.090     |
| 2A         | 0.200     | 0.200  | 0.200     | 0.200   | 0.200     |
| 2-1/2A     | 0.300     | 0.300  | 0.300     | 0.300   | 0.300     |
| 3A         | 0.750     | 0.750  | 0.750     | 0.750   | 0.750     |
| 5A         | 5.0       | 5.0    | 5.0       | —       | —         |

Note—Power Factor > .90.

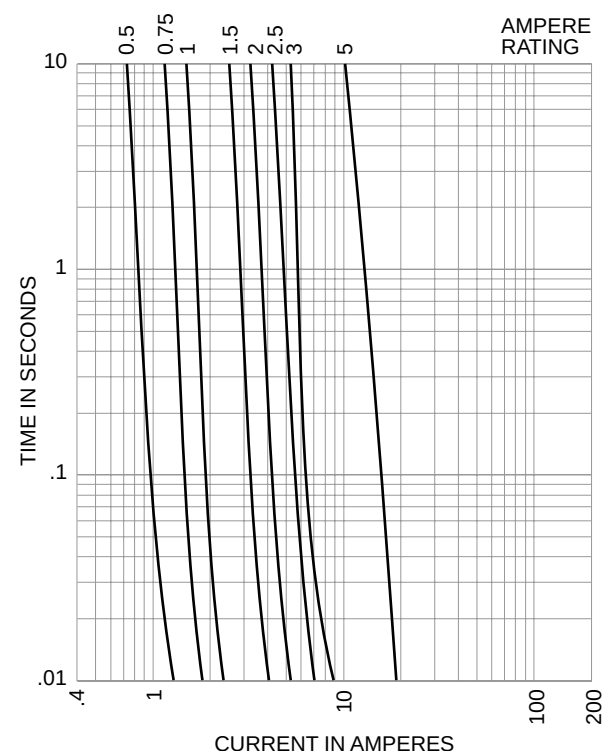
**Short-Circuit Performance**

The PC-Tron® subminiature fuse offers short-circuit performance which until now could only be found in much larger size glass tube fuses. At 250 VAC, the 1/2 to 3 amp PC-Tron can safely interrupt 50 amperes; at 125 VAC the 1/2 to 5 amp versions can interrupt 10,000 amperes. This high interrupting capacity makes the PC-Tron subminiature fuse ideal for line-side protection of power supplies.

**DC Application**

The PC-Tron® subminiature fuse is UL recognized for DC supplementary overcurrent protection to provide individual protection for components or internal circuits in equipment.

The test method detailed below was chosen to emulate DC Bus application. Suitability for a specific application is dependent on time constants and capacitance values. It is the responsibility of the customer to evaluate the information provided for applicability to their particular application.

**Time-Current Characteristic Curves—Average Melt**

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