

Subminiature, Radial Leaded, Fast-Acting Fuses PC-Tron Series



Description

- Radial leaded, fast-acting thru-hole fuse
- Ideal for high voltage DC applications
- Board washable
- Optional mounting socket available (PCS)
- Available in different lead configurations

| AC Time-Current Characteristics | |
|---------------------------------|-------------------|
| % of Amp Rating | Opening Time |
| 100% | 4 hours minimum |
| 200% | 10 second maximum |

Agency Information

- UL Recognized: E19180
- CSA: 42731

Part Number System/Ordering - An Option Code Must Be Selected

- Specify packaging code prefix, product and option code suffix



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. 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.

PCS Mounting Socket (RoHS compliant)

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



Specifications

| Catalog Number | Lead Length | AC Voltage Rating | AC Interrupting | DC Voltage Rating | DC Interrupting | |
|----------------------------------|--------------------------|-------------------|----------------------|-------------------|-----------------|-------|
| | | | | | Min. | Max. |
| PCB-1/2, 3/4, 1, 1-1/2, 2, 2-1/2 | Full - 0.750" (straight) | 250V | 50A@250V - 10kA@125V | 450V | 300 | 5900A |
| PCB-3 | Full - 0.750" (straight) | 250V | 50A@250V | 450V | 300 | 4400A |
| PCB-4 | Full - 0.750" (straight) | - | - | 450V | 300 | 2500A |
| PCC-1/2, 3/4, 1, 1-1/2, 2, 2-1/2 | Short 0.100" (straight) | 250V | 50A@250V - 10kA@125V | 450V | 300 | 5900A |
| PCC-3 | Short 0.100" (straight) | 250V | 50A@250V - 10kA@125V | 450V | 300 | 4400A |
| PCC-4 | Short 0.100" (straight) | - | - | 450V | 300 | 2500A |
| PCD-5 | Full - 0.750" (straight) | 125V | 10kA@125V | 400V | 300 | 1000A |
| PCE-5 | Short 0.100" (straight) | 125V | 10kA@125V | 400V | 300 | 1000A |
| PCF-1/2, 3/4, 1, 1-1/2, 2, 2-1/2 | 0.475" | 250V | 50A@250V - 10kA@125V | 450V | 300 | 5900A |
| PCF-3 | 0.475" | 250V | 50A@250V - 10kA@125V | 450V | 300 | 4400A |
| PCG-5 | 0.475" | 125V | 10kA@125V | 400V | 300 | 1000A |
| PCH-1/2, 3/4, 1, 1-1/2, 2, 2-1/2 | 0.125" | 250V | 50A@250V - 10kA@125V | 450V | 300 | 5900A |
| PCH-3 | 0.125" | 250V | 50A@250V - 10kA@125V | 450V | 300 | 4400A |
| PCH-4 | 0.125" | - | - | 450V | 300 | 2500A |
| PCI-5 | 0.125" | 125V | 10kA@125V | 400V | 300 | 1000A |

Device designed to carry rated current for four hours minimum. An operating current of 80% or less of rated current is recommended, with further derating required at elevated ambient temperatures.

Dimensions - mm ($\pm 0.005"/0.13\text{mm}$)

Standard Fuse (PCB, PCD)



Dimensional Data (PCH, PCI)



Dimensional Data (PCF, PCG)



Time-Current Characteristic Curves—Average Melt



Max. Total Clearing I²t (Amps² Sec.)

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

Note: Power Factor > 0.90.

Packaging Code

| Packaging Code Prefix | Description/Quantity |
|-----------------------|----------------------------|
| Blank | 5 fuses |
| BK | 100 fuses in a carton |
| TR* | 500 fuses on Tape-and-Reel |

* Only for PCB and PCD

Option Code

| Option Code Suffix | Description |
|--------------------|----------------|
| -R | RoHS Compliant |
| -SD | Solder Dipped |

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