COOPER Bussmann

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PCB-3-R

NON-TIME DELAY, PCB MOUNT FUSE

Product Information	
Product Type:	Fuse
Product Family:	Electronic
Brand:	Cooper Bussmann

Physical Properties	
Dimensions:	8.89in.(L) × 4.67in.(W) × 8.89in.(H)
Lead Diameter:	0.38
Lead Length:	19.1
Number of Terminals, Pins, or Leads:	2

Electrical Properties	
Maximum AC Voltage:	250
Maximum DC Voltage:	450
Amperage Rating:	3
AC Interrupting Ratings:	• 50 at 250V

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

Ordering

- Specify packaging, product, and option code
  (i.e., BK/PCB-1/2-R)

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.
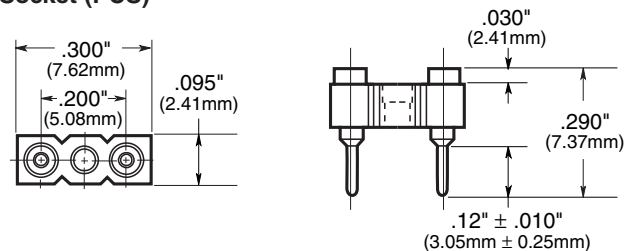
RoHS 2002/95/EC
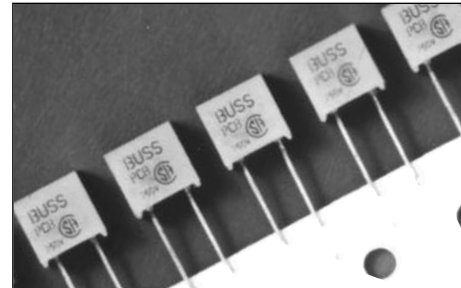
Dimensions ᵐᵐ/(inches)

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

Mounting Socket (RoHS compliant)

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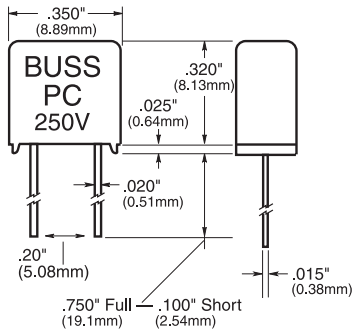
Socket (PCS)

.300" (7.62mm)
.200" (5.08mm)
.095" (2.41mm)
.030" (2.41mm)
.290" (7.37mm)
.12" ± .010" (3.05mm ± 0.25mm)

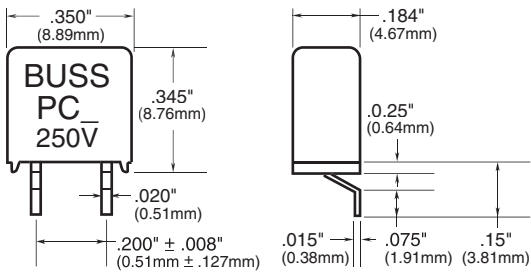| SPECIFICATIONS |||||||
Product Code / Amp Rating	Lead Length	Voltage Rating AC	AC Interrupting	Voltage Rating DC	DC Interrupting Min.	Max.
PCB - 1/2, 3/4, 1, 1-1/2, 2, 2-1/2	Full - 0.750" (straight)	250V	50A @ 250V 10kA @ 125V	450V	300	5900A
PCB - 3	Full - 0.750" (straight)	250V	50A @ 250V	350V	300	4400A
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	350V	300	4400A
PCD - 5	Full - 0.750" (straight)	125V	10kA @ 125V	250V	300	4200A
PCE - 5	Short 0.100" (straight)	125V	10kA @ 125V	250V	300	4200A
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	350V	300	4400A
PCG - 5	0.475"	125V	10kA @ 125V	250V	300	4200A
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	350V	300	4400A
PCI - 5	0.125"	125V	10kA @ 125V	250V	300	4200A

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.

Printed Circuit Board Fuses
PC-Tron® Series

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

Standard Fuse (PCB, PCD)

.350"
(8.89mm)

BUSS
PC
250V

.320"
(8.13mm)

.025"
(0.64mm)

.020"
(0.51mm)

.20"
(5.08mm)

.015"
(0.38mm)

.750" Full
(19.1mm)

.100" Short
(2.54mm)

Dimensional Data (PCH, PCI)

.350"
(8.89mm)

BUSS
PC_
250V

.345"
(8.76mm)

.020"
(0.51mm)

.200" ± .008"
(0.51mm ± .127mm)

.184"
(4.67mm)

.0.25"
(0.64mm)

.015"
(0.38mm)

.075"
(1.91mm)

.15"
(3.81mm)

Dimensional Data (PCF, PCG)

.350"

BUSS
PCG
125V

.345"

.020"

.400"
REF.

.184"

0.25"

.500"
MIN.

.015"
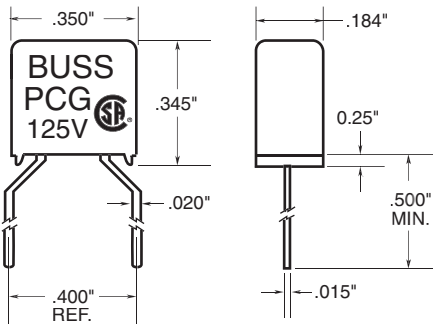
Time-Current Characteristic Curves–Average Melt
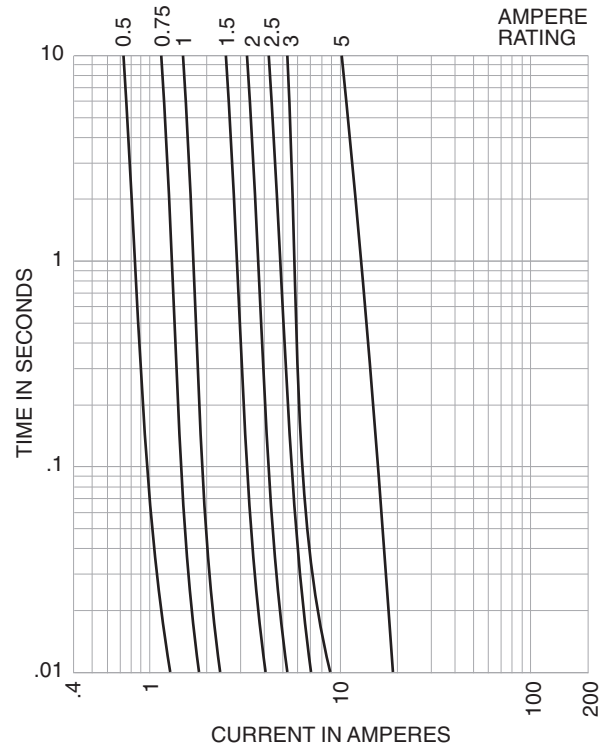
Max. Total Clearing I²t (Amps² Sec.)

Amp Rating	Volts AC			
	125 Volts		250 Volts	
	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 > .90.

PACKAGING CODE

Packaging Code	Description
Blank	5 pieces of fuses
BK	100 pieces of fuses in a carton
TR*	500 pieces of fuses on tape and Reel

* Only for PCB and PCD

OPTION CODE

Option Code	Description
-R	RoHS Compliant Version