Features

- Designed to UL 248-14 and IEC 60127-1 fuse standards
- 500 VAC/VDC and 10-40 A ratings available
- Up to 30 kA interrupting rating
- Available in cartridge and axial lead options
- RoHS compliant* and halogen free**

PF-63R50H Series – Cartridge & Axial Lead Power Fuses

Clearing Time Characteristics for Series

% of Current Rating	Clearing Time at 25 °C	
	Minimum	Maximum
100 %	4 hours	—
200 %	—	5 minutes
300 %	—	10 seconds
1000 %	—	1 second

Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

Electrical Characteristics

Model	Rated Current (A)	Nominal Resistance (Ω)***	Rated Voltage	Interrupting Rating	Pre-arcing Nominal I^2t (A^2s)****	Typical Voltage Drop (mV)	Agency Recognition	
							cUL E198545	TÜV J50671806
PF-63R50H10	10	13.2	500 VAC 500 VDC	30 kA @ 500 VAC 20 kA @ 500 VDC	50	230	✓	✓
PF-63R50H12	12	12.9			43	250	✓	✓
PF-63R50H15	15	10.7			80	280	✓	✓
PF-63R50H16	16	10.7			90	300	✓	✓
PF-63R50H20	20	7.2			150	320	✓	✓
PF-63R50H25	25	5.1			220	280	✓	✓
PF-63R50H30	30	4.3			270	300	✓	✓
PF-63R50H35	35	3.5			650	310	✓	✓
PF-63R50H40	40	2.75			2080	280	✓	✓
PF-63R50H10X	10	13.2	500 VAC 500 VDC	30 kA @ 500 VAC 20 kA @ 500 VDC	50	230	✓	✓
PF-63R50H12X	12	12.9			43	250	✓	✓
PF-63R50H15X	15	10.7			80	280	✓	✓
PF-63R50H16X	16	10.7			90	300	✓	✓
PF-63R50H20X	20	7.2			150	320	✓	✓
PF-63R50H25X	25	5.1			220	280	✓	✓
PF-63R50H30X	30	4.3			270	300	✓	✓
PF-63R50H35X	35	3.5			650	310	✓	✓
PF-63R50H40X	40	2.75			2080	280	✓	✓

*** Resistance value was measured with less than 10 % of rated current at 25 °C.
**** Pre-arcing nominal I^2t value is measured at 1000 % In.

WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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Users should verify actual device performance in their specific applications.
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Applications

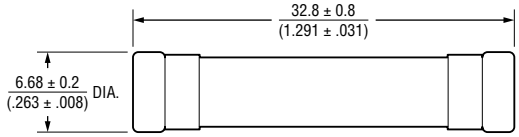
- Energy Storage Systems (ESS)
- Battery pack protection
- Battery Disconnect Units (BDUs)
- Battery chargers

PF-63R50H Series – Cartridge & Axial Lead Power Fuses

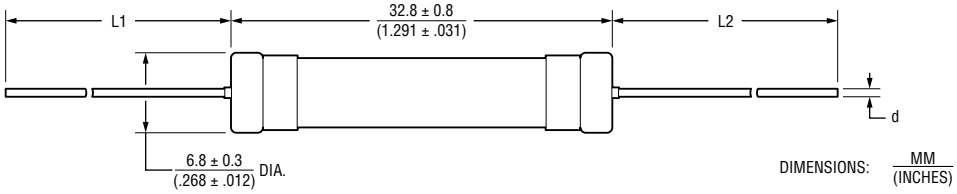
BOURNS®

Product Dimensions

Model: PF-63R50Hxx



Model: PF-63R50Hxx X, PF-63R50Hxx L, PF-63R50Hxx XL



Model	L1	L2	d Dia.		
			< 15A	15A to 30A	≥ 35A
PF-63R50Fxx X	38.0 ± 2.0 (1.496 ± .079)		0.8 (.031)	1.0 (.039)	1.2 (.047)
PF-63R50Fxx L	50.0 +3.0/-1.0 (1.969 +.118/-.039)				
PF-63R50Fxx XL	10.0 +4.0/-0 (.394 +.157/-0)	52.0 ± 2.0 (2.047 ± .079)			

Wave Soldering Recommendations

Profile Feature	Pb-Free Assembly
Preheat: Temperature Max. Temperature Min.	 150 °C 100 °C
Solder Pot Temperature	260 ± 3 °C
Solder Dwell Time	10 seconds max.

Hand Soldering Recommendations (for PCB Mounting)

Soldering Iron Temperature	Heating Time
350 ± 10 °C	3 sec. max.

Packaging

Model	Quantity	
	Inner Box	Outer Box
PF-63R50H	250 pcs.	20 inner boxes
PF-63R50H-X PF-63R50H-L PF-63R50H-XL	200 pcs.	

How to Order

PF - 63R 50 H 10 X

POWrFuse™
Product Designator

Body Dimension
63R = 6 mm dia. x 30 mm

Rated Voltage
50 = 500 VAC

Interrupting Capacity
H = High Interrupting Capacity

Rated Current
10 - 40 = 10A - 40 A

Lead Type
(blank) = Cartridge
X = Standard
L = Long Lead
XL = Special

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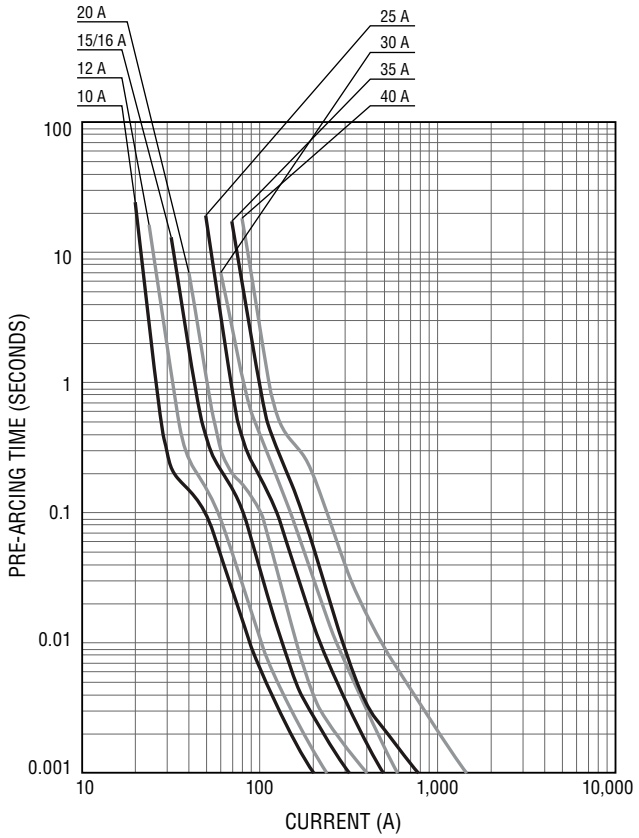
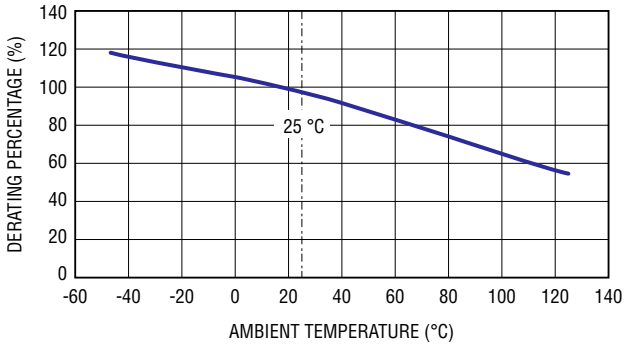
Average Pre-Arcing Time vs. Current Curves



Current Rating Thermal Derating Curve



Typical Part Marking

Rating Current (A)	Note	Ink Color	Marking (for Cartridge type)
10	10	Black	PF-63R50H (Note) A 500VAC c UL us 500VDC
12	12		
15	15		
16	16		
20	20		
25	25		
30	30		
35	35		
40	40		

Environmental Characteristics

Operating Temperature	-40 °C to +125 °C

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