

POWrFuse™ PF-H (gPV) Series Features

- Designed to UL 248-19 and IEC 60269-6 (gPV) photovoltaic fuse standards
- 15-30 A ratings available
- Up to 150 kA interrupting rating
- Available in ferrule or PCB mounting options
- RoHS compliant* and halogen free**
- Agency recognition: c(U) us △



(gPV) Series – Photovoltaic Power Fuses

Clearing Time Characteristics for Series

9/ of Current Boting	Clearing Time at 25 °C		
% of Current Rating	Minimum	Maximum	
100 %	4 hours	_	
113 %	60 minutes	_	
135 %	_	60 minutes	
145 %	_	- 60 minutes	
200 %	_	4 minutes	

Additional Information

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Electrical Characteristics

	Rated	Rated Nominal				Watts Loss (W)		Agency Recognition	
	Current (A)	Resistance (Ω)***	Rated Voltage	Interrupting Rating	Nominal I ² t (A ² s)****	@ 70 % I _n	@ 100 % I _n	C UL US	TÜV Rheinland Product Safety
PF-HC1-15	15	0.008105	600 VAC 600 VDC		51.64	2.2	5.4	FERRIE	R 50532110
PF-HC1-20	20	0.004905			206.48	2.6	6.3		
PF-HC1-25	25	0.003745			1607.18	3.1	6.9		
PF-HC1-30	30	0.00287			1740	3.5	7.6		
PF-HT1-15	15	0.008105	600 VAC 600 VDC		51.64	2.2	5.4	<u>E526252</u>	
PF-HT1-20	20	0.004905		50 kΔ (a) 600 V/1)(*	206.48	2.6	6.3		TA 50532027
PF-HT1-25	25	0.003745			1607.18	3.1	6.9		
PF-HT1-30	30	0.00287			1740	3.5	7.6		

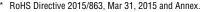
Resistance value measured with ≤10 % rated current at 25 °C ambient.

BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com



^{**} 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 (CI) content is 1500 ppm or less. "POWrFuse" is a trademark of Bourns, Inc.

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.



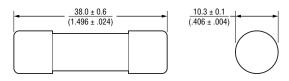
^{****} Nominal I2t value is measured at 10x rated current.

PF-H (gPV) Series – Photovoltaic Power Fuses

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Product Dimensions

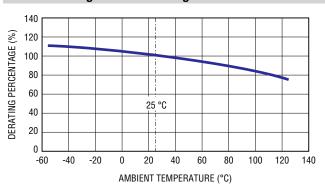
Ferrule/C1



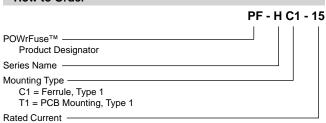
Environmental Characteristics

Operating Temperature.....-55 °C to +125 °C

Current Rating Thermal Derating Curve



How to Order

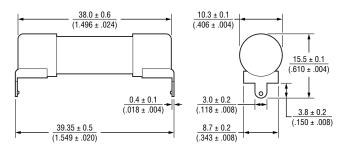


Packaging

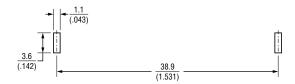
15 - 30 = 15 A - 30 A

Model	Quantity		
PF-HC1	10 pcs. / box		
PF-HT1	50 pcs. / tray		

PCB Mounting/T1



Recommended Drilling Pattern



Wave Soldering Recommendations (for PCB Mounting)

Profile Feature	Pb-Free Assembly
Preheat: Temperature Max. Temperature Min.	150 °C 100 °C
Solder Pot Temperature	280 °C max.
Solder Dwell Time	8 seconds max.

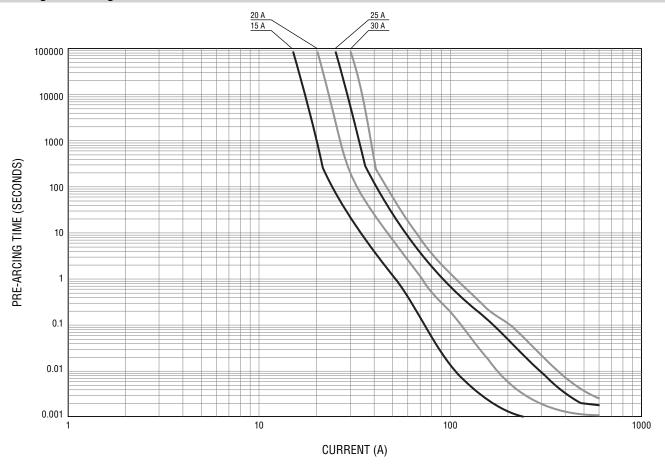
Hand Soldering Recommendations (for PCB Mounting)

Soldering Iron Temperature	Heating Time		
350 °C ± 5 °C	40 sec. max.		

Typical Part Marking

Model	Note	Ink Color	Marking
PF-HC1-15	15		BOURNS' ,(M).
PF-HC1-20	20	Black	gPV LISTED
PF-HC1-25	25	DIACK	PF-HC1(Note) A 150KA DC 150KA DC 600V ROHS R0 12 10VA DC
PF-HC1-30	30		600V ROHS (N) IR 10kA DC
PF-HT1-15	15		BOURNS' (M)
PF-HT1-20	20	Disale	gPV LISTED
PF-HT1-25	25	Black	PF-HT1 (Note) A 150 KA AC
PF-HT1-30	30		600V ROHS R IR 10kA DC

Average Pre-Arcing Time vs. Current Curves



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