

POWrFuse™ PF-N Series Features

- Operation up to 170 VDC to provide current limiting short circuit protection
- UL Recognized with a 100 kA interrupting rating
- UL 248-1 compliant
- RoHS compliant* and halogen free**



PF-N Series – Telecom Power Fuses

Clearing Time Characteristics for Series

9/ of Curr	ant Dating	Clearing Time at 25 °C		
% of Current Rating		Minimum	Maximum	
100 %		4 hours	_	
135 %	40-60 A	_	1 hour	
133 %	80 A	_	2 hours	
200 %	40-60 A	_	6 minutes	
200 %	80 A	_	8 minutes	

Additional Information

Click these links for more information:









Environmental Characteristics

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

Electrical Characteristics

Model	Rated Current (A)	Nominal Resistance (Ω)***	Rated Voltage	Interrupting Rating	Nominal I ² t (A ² s)****	Agency Recognition
PF-NT2-40	40	0.00450		100 kA @ 170 VDC	1974	<u>E500949</u>
PF-NT5-40		0.00156				
PF-NT2-50	- 50	0.00123	170 VDO		4139	
PF-NT5-50						
PF-NT2-60	- 60	0.0009	170 VDC		6454	
PF-NT5-60		0.0009				
PF-NT2-80	- 80	0.00074			8236	
PF-NT5-80						

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

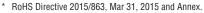
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^{**} Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less. "POWrFuse" is 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.



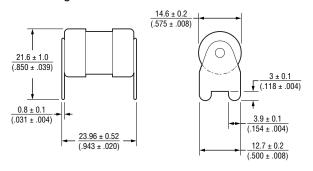
^{****} Nominal I2t value measured at 100 kA/170 VDC.

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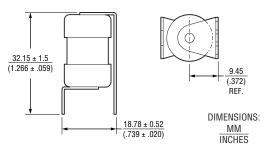
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Product Dimensions

PCB Mounting/T2

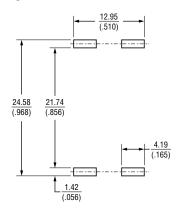


PCB Mounting/T5

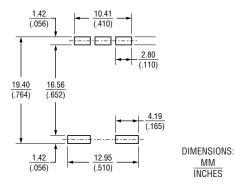


Recommended Drilling Pattern

PCB Mounting/T2



PCB Mounting/T5



Wave Soldering Recommendations

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.

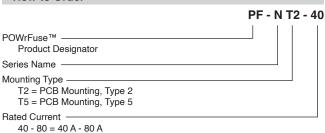
Hand Soldering Recommendations (for PCB Mounting)

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

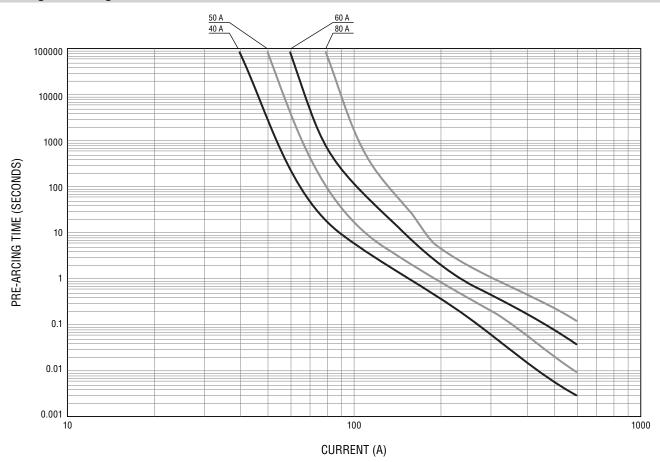
Packaging

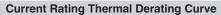
Model	Quantity	
PF-NT2	10 pcs. / box	
PF-NT5	10 pcs. / box	

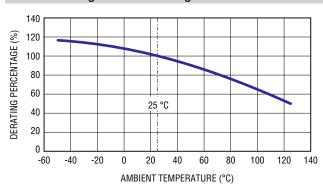
How to Order



Average Pre-Arcing Time vs. Current Curves







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Typical Part Marking

Model	Note	Ink Color	Marking	
PF-NT2-40	40			
PF-NT2-50	50	Black	BOURNS® PF-NT2 (Note) A 170VDC	
PF-NT2-60	60	Diack	CALUS ROHS RO	
PF-NT2-80	80			
PF-NT5-40	40			
PF-NT5-50	50	Disale	POTTERTS® PF-NT5 (Note) A 170VDC	
PF-NT5-60	60	Black	BOURNS ROHS RO	
PF-NT5-80	80			

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