

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

% of Current Rating		Clearing Time at 25 °C	
		Minimum	Maximum
100 %		4 hours	—
135 %	40-60 A	—	1 hour
	80 A	—	2 hours
200 %	40-60 A	—	6 minutes
	80 A	—	8 minutes

Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

Environmental Characteristics

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

Electrical Characteristics

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

*** Resistance value measured with ≤10 % rated current at 25 °C ambient.
**** Nominal I^2t value measured at 100 kA/170 VDC.

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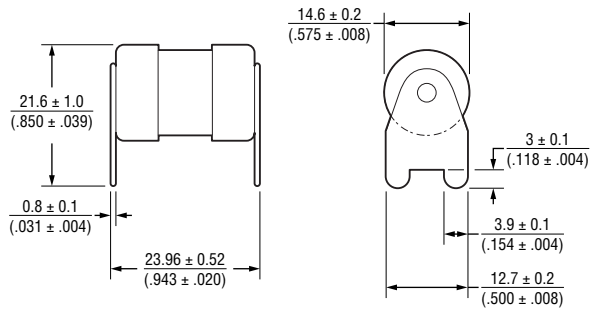
WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

* 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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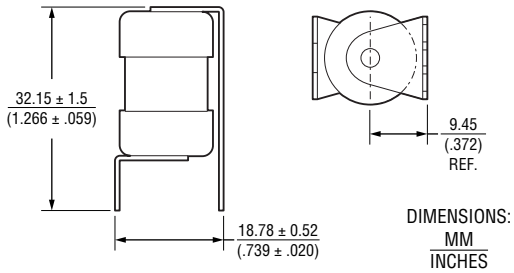
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Product Dimensions

PCB Mounting/T2

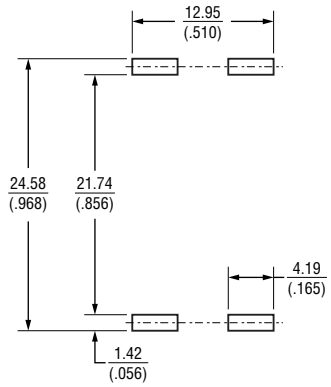


PCB Mounting/T5

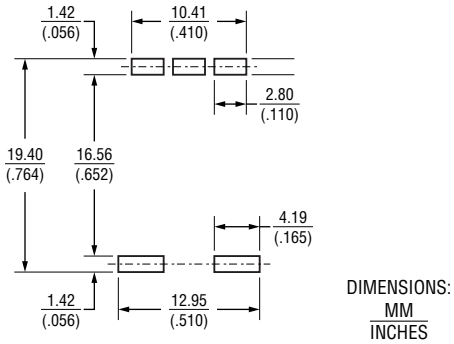


Recommended Drilling Pattern

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

PF - N T2 - 40

POWrFuse™
Product Designator

Series Name

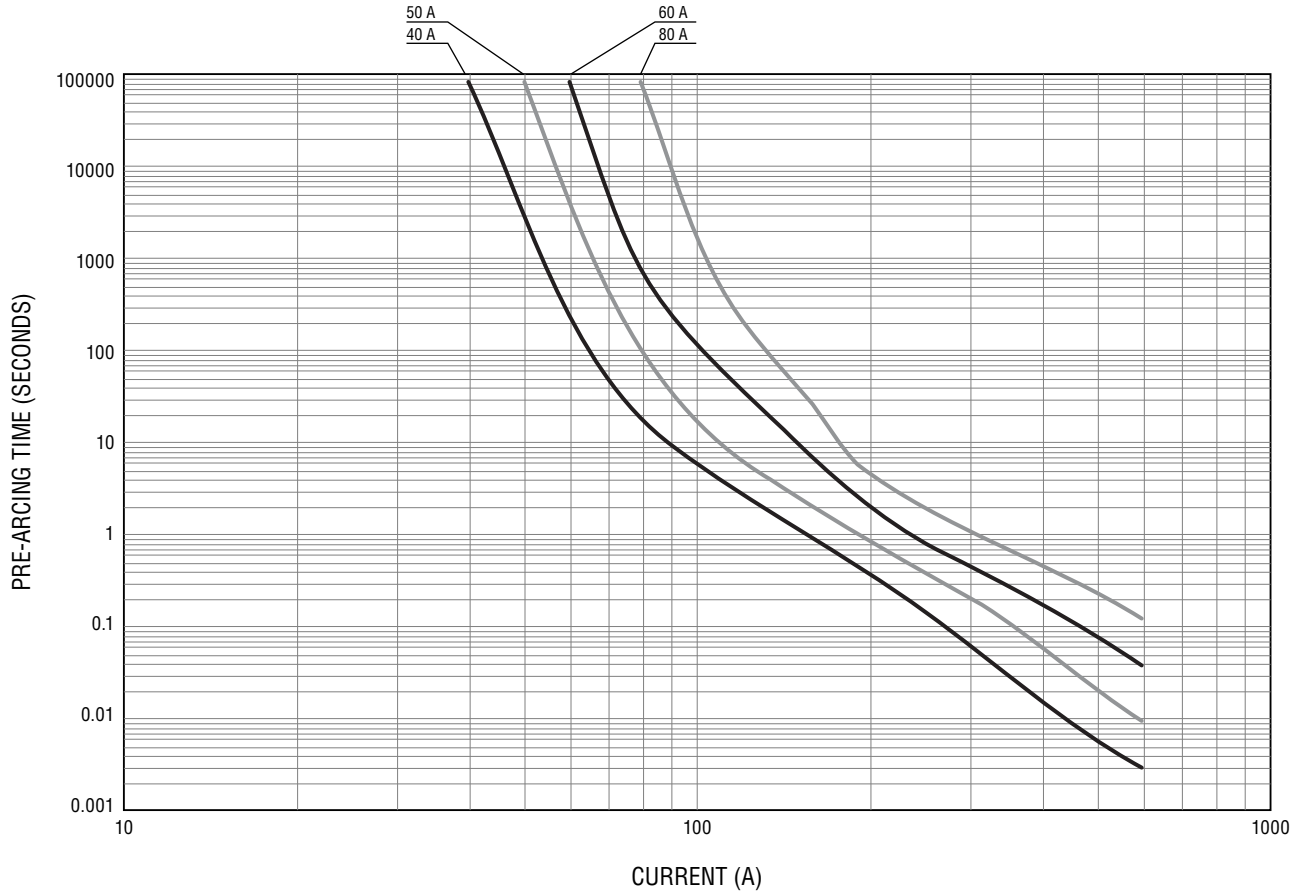
Mounting Type
T2 = PCB Mounting, Type 2
T5 = PCB Mounting, Type 5

Rated Current
40 - 80 = 40 A - 80 A

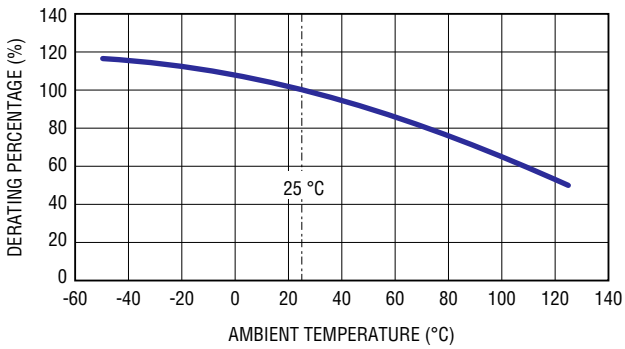
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Average Pre-Arcing Time vs. Current Curves



Current Rating Thermal Derating Curve



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Typical Part Marking

Model	Note	Ink Color	Marking
PF-NT2-40	40	Black	
PF-NT2-50	50		
PF-NT2-60	60		
PF-NT2-80	80		
PF-NT5-40	40	Black	
PF-NT5-50	50		
PF-NT5-60	60		
PF-NT5-80	80		

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