



## 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:




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### Environmental Characteristics

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

### Electrical Characteristics

Model	Rated Current (A)	Nominal Resistance (Ω) <sup>***</sup>	Rated Voltage	Interrupting Rating	Nominal I <sup>2</sup> t (A <sup>2</sup> s) <sup>****</sup>	Agency Recognition
						
PF-NT2-40	40	0.00156	170 VDC	100 kA @ 170 VDC	1974	<a href="#">E500949</a>
PF-NT5-40						
PF-NT2-50	50	0.00123				
PF-NT5-50						
PF-NT2-60	60	0.0009				
PF-NT5-60						
PF-NT2-80	80	0.00074				
PF-NT5-80						

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

\*\*\*\* Nominal I<sup>2</sup>t value measured at 100 kA/170 VDC.



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\* 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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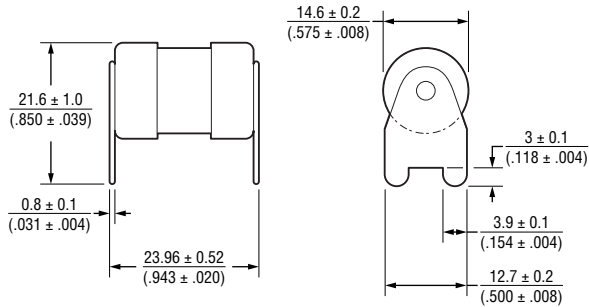
**WARNING**  
Cancer and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# PF-N Series – Telecom Power Fuses

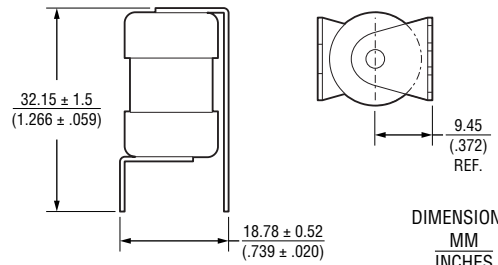


## Product Dimensions

### PCB Mounting/T2

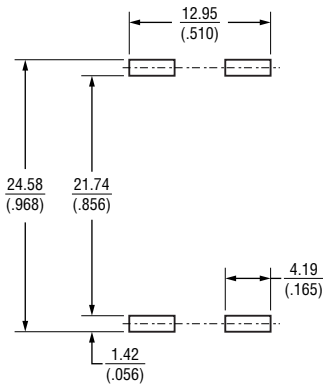


### PCB Mounting/T5

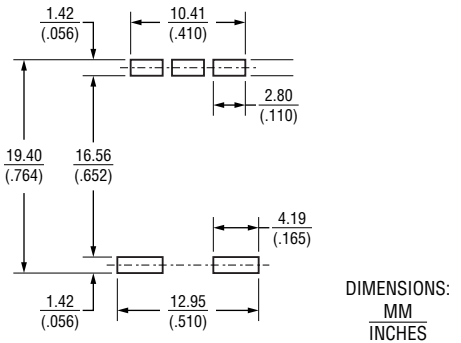


## Recommended Drilling Pattern

### 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

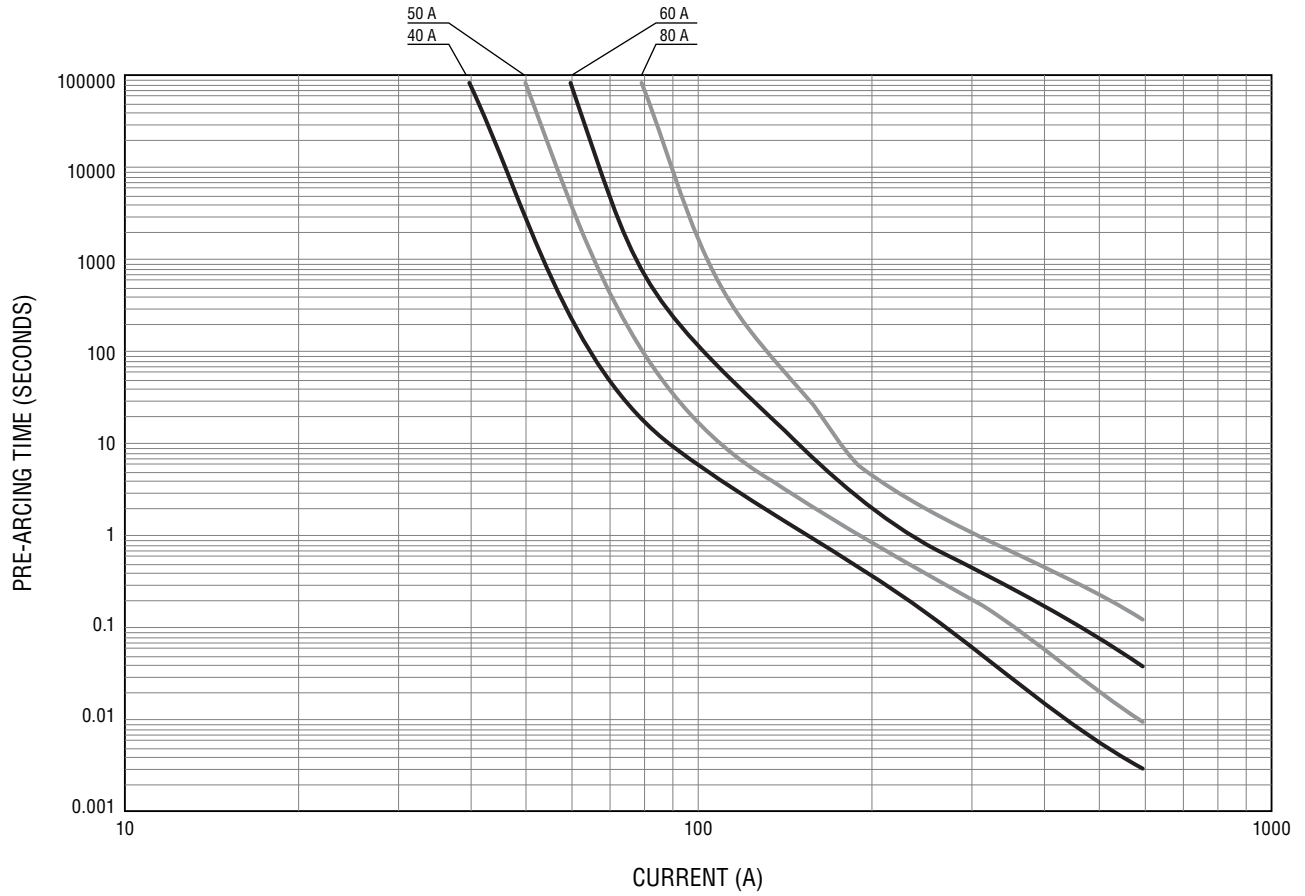
## How to Order

**PF - N T2 - 40**

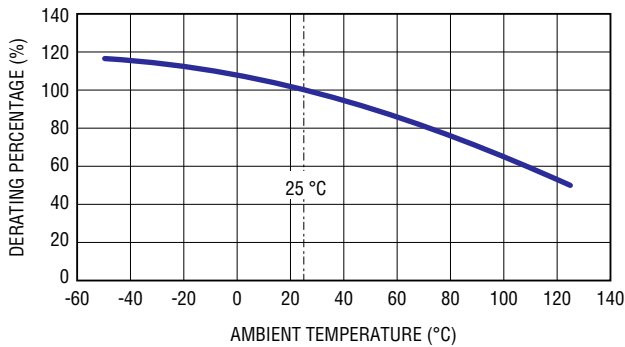
POWrfuse™ \_\_\_\_\_  
 Product Designator \_\_\_\_\_  
 Series Name \_\_\_\_\_  
 Mounting Type \_\_\_\_\_  
     T2 = PCB Mounting, Type 2  
     T5 = PCB Mounting, Type 5  
 Rated Current \_\_\_\_\_  
 40 - 80 = 40 A - 80 A

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 Users should verify actual device performance in their specific applications.  
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Average Pre-Arcing Time vs. Current Curves



Current Rating Thermal Derating Curve



# PF-N Series – Telecom Power Fuses

**BOURNS®**

## 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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