

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: PF-NT5-50

Manufacturer: Bourns Inc.

Package: Radial Bend Cylinder

Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bourns-inc/pf-nt5-50.html>

Request a Quote:

[Submit RFQ for this part](#)



Scan for product page

Contact Information

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Website: <https://antrexco.com>

Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.



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 I²t (A²s)****	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 I²t value measured at 100 kA/170 VDC.

BOURNS®

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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.

"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.



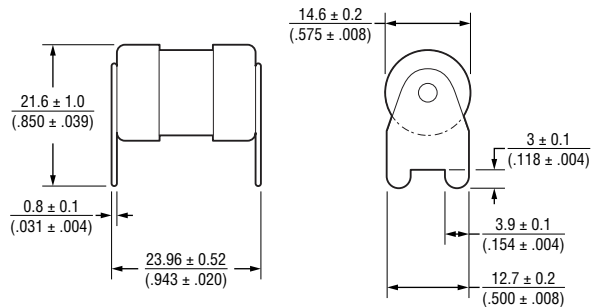
WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

PF-N Series – Telecom Power Fuses

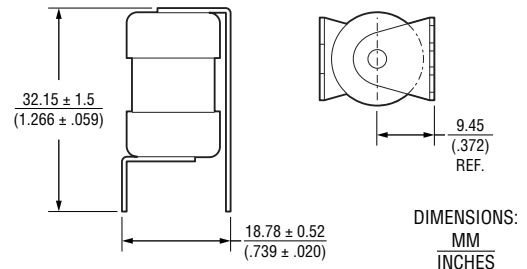
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Product Dimensions

PCB Mounting/T2

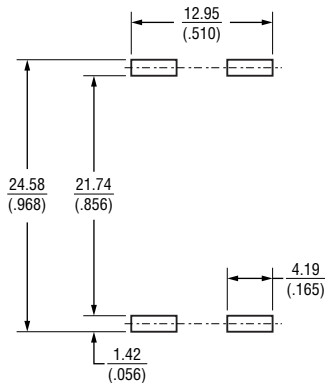


PCB Mounting/T5

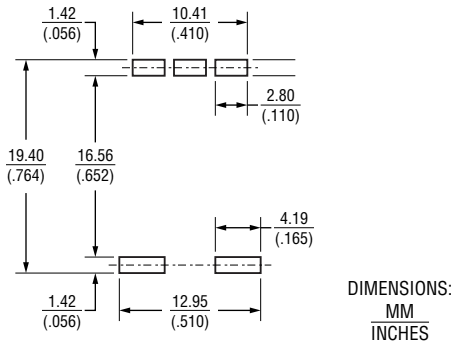


Recommended Drilling Pattern

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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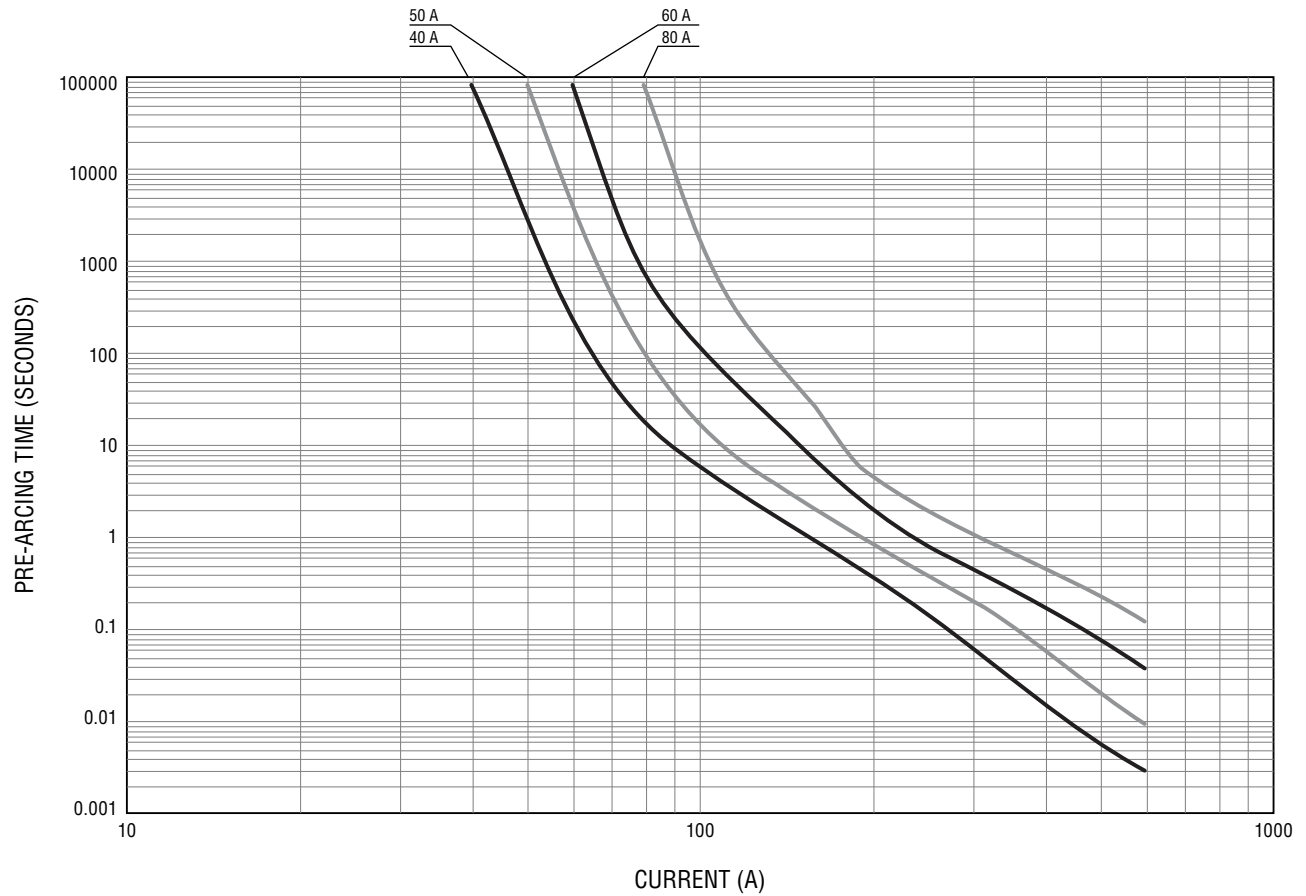
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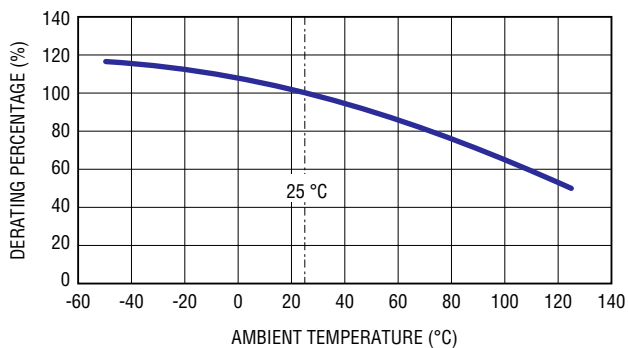
PF-N Series – Telecom Power Fuses

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Average Pre-Arcing Time vs. Current Curves



Current Rating Thermal Derating Curve



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PF-N Series – Telecom Power Fuses

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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		

REV. 05/22

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