NEW PRODUCT BRIEF
Bourns® PF-N Series Telecom Power Fuses

POWrFuse™ High-Power Fuses

INTRODUCTION
Bourns® POWrFuse™ High-Power Fuses are industrial fuse links designed to meet UL 248 and IEC 60269 standards. The new POWrFuse™ PF-N model series is designed to meet the UL 248-1 standard to protect telecom network systems under extreme ambient temperature, high-cycling, and low-level fault current conditions.

The POWrFuse™ PF-N model series is housed in a compact package (14.6 mm dia. x 22.3 mm). Its high voltage rating is suitable for common telecom 48 VDC as well as AC systems.

FEATURES
- UL 248-1 compliant
- Fast-acting protection under fault current
- Low resistance and power loss
- Up to 100 kA interrupting rating
- Two PCB mounting options
- Temperature range: -55 to +125 °C
- RoHS compliant*
- Halogen free**

BENEFITS
- Global quality with local services
- The standard compliance and robust interrupting rating ensure safety and quality as well as minimal service calls, hence minimizing the Total Cost of Ownership (TCO)
- Complete solution with Bourns® high current rating overvoltage protectors is listed under “MORE INFORMATION”

APPLICATIONS
- Telecom networks
- DC Power Distribution Systems
- AC Power Distribution Systems

MORE INFORMATION
- AC Power SPD: 1210 Series
- DC Power SPD: 1320 Series
- Power TVS (PTVS) Diodes
- High Energy MOVs
- High Current GDTs
- Stacked Model 2033 GDT
- Custom high current chokes
- High Current SinglFuse™ SMD Fuses: SF-3812 and SF-2923 Series

HOW TO ORDER
POWrFuse™ Product Designator
Series Name
Mounting Type
T2 = PCB Mounting/Type 2
T5 = PCB Mounting/Type 5
Rated Current
40-80 = 40 - 80 A

PACKAGING SPECIFICATIONS
PF-NT2 Series .......................... 10 pcs./box
PF-NT5 Series .......................... 10 pcs./box

** 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.
# NEW PRODUCT BRIEF

## Bourns® PF-N Series Telecom Power Fuses

**POWrFuse™ High-Power Fuses**

### ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Series</th>
<th>Rated Current</th>
<th>Rated Voltage</th>
<th>Interrupting Rating</th>
<th>UL Certification</th>
<th>PCB Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>PF-N</td>
<td>40 – 80 A</td>
<td>170 VDC</td>
<td>100 kA @170 VDC</td>
<td>✓</td>
<td>✓ ✓ ✓</td>
</tr>
</tbody>
</table>

### PRODUCT DIMENSIONS

**PCB Mounting (T2) Type**

- 23.96 ± 0.52 mm (0.943 ± 0.020 in)
- 14.6 ± 0.2 (0.575 ± .008 in)
- 3.9 ± 0.1 mm (0.154 ± 0.004 in)
- 0.8 ± 0.1 mm (0.031 ± 0.004 in)

**PCB Mounting (T5) Type**

- 32.15 ± 1.5 mm (1.266 ± 0.059 in)
- 18.78 ± 0.52 mm (0.738 ± 0.020 in)
- 9.45 (0.372) mm

DIMENSIONS: MM INCHES