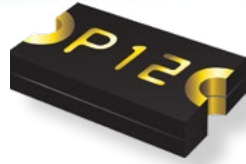


New Product Release

PPTC RESETTABLE FUSES



Bourns Multifuse Product Line Announces New Low Resistance PPTC Resettable Fuses *12 V Rated MF-NSML/X Series*

Riverside, California – February 5, 2019 – The Bourns Multifuse Product Line is pleased to announce the introduction of the new 12 V rated [Model MF-NSML/X series](#) of low resistance surface mount Polymer Positive Temperature Coefficient (PPTC) resettable fuses. The new series includes I_{hold} current ratings from 1.5 A to 4.5 A at the 12 V maximum rated voltage.

Bourns' low resistance conductive materials used in this new product series exhibit post trip resistance values as low as 14 mOhms and initial resistance values as low as 2 mOhms. Such low resistance values help boost the current carrying capability of the devices. The new Bourns® model can now achieve 4.5 A I_{hold} at 12 Vdc in a space-saving 1206 package (Model MF-NSML450/12-2).



The compact MF-NSML/X model family utilizes Bourns' innovative freeXpansion™ design, increasing the performance of the resettable fuse with:

- Higher hold currents (I_{hold})
- Higher voltages (V_{max})
- Improved resistance stability
- Smaller footprints

The primary applications for these products include Li-ion battery packs, motherboards, and portable consumer electronic I/O port protection. These devices have been designed to protect against both overcurrent and overtemperature events within the products' designated specifications.

The new Model MF-NSML/X Multifuse® PPTC products are RoHS compliant* and UL recognized for safety requirements, and are produced in Bourns' IATF16949 approved facility in Xiamen, China.

Features

- Surface mount packaging for automated assembly
- Small footprint size (1206) and low profile for space-constrained mobile applications
- Ultra-low resistance
- Higher voltage withstand
- RoHS compliant* and halogen free**
- Agency recognition:  

Applications

- Thermal protection for Li-ion battery packs
- PC and server motherboard protection
- Mobile phone battery and charging protection
- USB port protection
- Power port protection
- Gaming console port protection

For additional information on Bourns® Multifuse® products, please visit the Bourns website at www.bourns.com/products/circuit-protection/resettable-fuses-multifuse-pptc. Should you have any questions, please feel free to contact [Customer Service/Inside Sales](#).

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

** 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.