



PRODUCT EXTENSION RELEASE

MULTIFUSE® PPTC RESETTABLE FUSES



Bourns Multifuse Product Line Announces the Expansion of its Model MF-NSMF High Power PPTC Resettable Fuse Series

Riverside, California – **December 18, 2023** – The Bourns Multifuse Product Line is pleased to announce the expansion of its [Model MF-NSMF](#) High Power Surface Mount Polymeric Positive Temperature Coefficient (PPTC) Resettable Fuse Series. The latest additions broaden the hold current (I_{hold}) ranges up to 2.0 A and increases the maximum voltage (V_{max}) to 60 VDC.

New Models					
MF-NSMF005/30X	MF-NSMF005/60X	MF-NSMF010/30X	MF-NSMF010/60X	MF-NSMF012/48X	MF-NSMF016/48X
MF-NSMF020X	MF-NSMF025X	MF-NSMF025/24X	MF-NSMF025/30X	MF-NSMF035X	MF-NSMF035/24X
MF-NSMF035/30X	MF-NSMF050/8X	MF-NSMF050/16X	MF-NSMF050/24X	MF-NSMF075/8X	MF-NSMF075/13X
MF-NSMF075/16X	MF-NSMF110/6X	MF-NSMF110/16X	MF-NSMF125/8X	MF-NSMF150/6X	

The most recent lineup within the Model MF-NSMF Series employs Bourns' innovative freeXpansion™ design, elevating the performance of the resettable fuse by incorporating higher hold currents, elevated voltages, enhanced resistance stability, and more compact footprints. These advances cater to various applications, primarily serving as safeguards for low DC voltage ports in USB, HDMI, HDTV, PC, laptop computers, data centers, and portable consumer products. These components are designed to shield against both overcurrent and overtemperature events, up to rated limits.



Series	Size (EIA)	I_{hold} (A)	V_{max} (VDC)	I_{max} (A)	cUL Listed	TÜV Listed	RoHS Compliant*	Halogen Free**
MF-NSMF005/30X ~ MF-NSMF200	1206	0.05 ~ 2.0	6 ~ 60	10 ~ 100	✓ E174545	✓ R50256634	✓	✓

(Continued)

MF2314

These new Model MF-NSMF models are RoHS compliant* and hold UL/CSA/TÜV recognition for meeting safety criteria. The TÜV certifications encompass IEC 62319-1 and IEC 60738-1, as well as IEC 60730-1:2013 clause 15, clause 17, and Annex J. These products are manufactured within a Bourns' IATF 16949 certified facility.

Features

- Standard 1206 footprint
- Swift Time-to-Trip (TTT) to protect in overcurrent events
- Demonstrates exceptional solderability with ENIG terminals
- Symmetrical design, low profile ranging from 0.7 to 1.6 mm
- RoHS compliant* and halogen free**
- Agency recognition:  
- TÜV certifications cover IEC 62319-1, IEC 60738-1, and IEC 60730-1:2013, encompassing clause 15, clause 17, and Annex J

Applications

- Overcurrent and overtemperature protection for:
 - USB, HDMI port protection
 - Battery packs
 - Tablet and laptop PCs
 - Hard disk drives
 - LCD/LED HDTV
 - Server and data center interfaces

For additional information, please visit the Bourns website at www.bourns.com. Should you have any questions, please feel free to contact [Customer Service/Inside Sales](#).

* 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.