



PRODUCT EXTENSION RELEASE

PPTC RESETTABLE FUSES



Bourns Multifuse Product Line Announces Expansion of Select Low Resistance PPTC Resettable Fuses

Model MF-PSML/X, MF-NSML/X and MF-USML/X Series

Riverside, California – October 7, 2019 – The Bourns Multifuse Product Line is pleased to announce the expansion of its low resistance model families [MF-PSML/X](#), [MF-NSML/X](#) and [MF-USML/X](#) surface mount Polymer Positive Temperature Coefficient (PPTC) resettable fuses. These series include three SMD sizes in EIA 0805, 1206 and 1210, and each series has been expanded to include lower cost 6 V DC V_{max} rated models with 50 A I_{max} ratings to complement Bourns' already successful offering of 12 V and 8 V V_{max} rated models.

Bourns' proprietary low-resistance material formulations used in these model families enable post-trip resistance values as low as 0.007 ohms and initial resistance values as low as 0.001 ohms. Low resistance values help boost the current carrying capability of the devices, while the proprietary Bourns® formulations provide superior resistance stability for greater long-term reliability.

The expanded MF-PSML/X, MF-NSML/X and MF-USML/X model families utilize Bourns' innovative freeXpansion™ design that increases the performance of the resettable fuse with:

- Higher hold current ratings (I_{hold})
- Higher maximum voltage ratings (V_{max})
- Improved resistance stability
- Smaller footprints

All three Multifuse® PPTC model families are RoHS compliant*, halogen free**, UL/ TÜV recognized for safety requirements, and are produced in Bourns' IATF 16949 certified facility in Xiamen, China.

Series	Size (EIA)	I_{hold} (A)	I_{max} (A)	V_{max} (V)	UL listed	TÜV listed	RoHS Compliant*	Halogen Free**
MF-PSML/X	0805	0.75 A – 4.5 A	50 A	6 V – 12 V	Yes	Yes	Yes	Yes
MF-NSML/X	1206	1.5 A – 6.0 A	50 A	6 V – 12 V	Yes	Yes	Yes	Yes
MF-USML/X	1210	1.75 A – 7.0 A	50 A	6 V – 12 V	Yes	Yes	Yes	Yes

* 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.

MF1939

Features

- EIA 0805, 1206 and 1210 size footprints
- Low profiles for space-constrained applications
- Ultra-low resistance and fast response times
- Surface mount packaging for automated assembly
- RoHS compliant* and halogen free**
- Agency recognition:  

Applications

- Thermal protection for Li-ion battery packs
- Power port protection
- PC and server motherboard protection
- Mobile phone battery and charging protection
- USB port protection - USB 2.0, 3.0 & OTG
- HDMI 1.4 source protection
- Wireless headphone power protection
- Gaming console port protection
- PDA and digital camera charging protection

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](#).

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