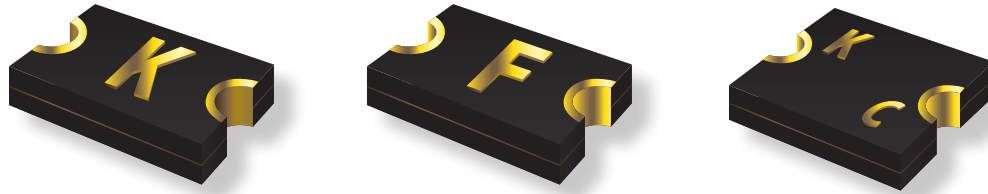


PRODUCT EXTENSION RELEASE

PPTC RESETTABLE FUSES



Bourns Multifuse Product Line Announces Expansion of Select High Temperature PPTC Resettable Fuses

Model MF-PSHT, MF-NSHT and MF-USHT Series

Riverside, California - August 30, 2019 - The Bourns Multifuse Product Line is pleased to announce the expansion of high working temperature model families [MF-PSHT](#), [MF-NSHT](#) and [MF-USHT](#) surface mount Polymer Positive Temperature Coefficient (PPTC) resettable fuses. These series include three sizes of SMD products in EIA 0805, 1206 and 1210. The 0805 size MF-PSHT model family has V_{max} as high as 16 VDC and I_{max} as high as 40 A with hold current ratings from 0.05 A to 0.5 A. The 1206 size MF-NSHT model family has V_{max} as high as 30 VDC and I_{max} as high as 40 A with hold current ratings from 0.1 A to 0.75 A. The 1210 size MF-USHT model family has V_{max} as high as 30 VDC and I_{max} as high as 40 A with hold current rating from 0.1 A to 1.5 A.

The addition of these new HT models provides a broader standard high-temperature PTC offering to customers with high working temperature requirements – particularly seen in automotive and industrial applications. Moreover, the new MF-PSHT, MF-NSHT and MF-USHT 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



The new Model MF-PSHT, MF-NSHT and MF-USHT Multifuse® PPTC products are RoHS compliant*, AEC-Q200 compliant and two parts numbers are UL listed** and are produced in Bourns’ IATF 16949 certified facility in Xiamen, China.

Series	Size (EIA)	I_{hold} (A)	I_{max} (A)	V_{max} (V)	RoHS Compliant*
MF-PSHT	0805	0.05 A – 0.50 A	40 A	12 V – 16 V	Yes
MF-NSHT	1206	0.10 A – 0.75 A	20 A – 40 A	12 V – 30 V	Yes
MF-USHT	1210	0.10 A – 1.50 A	20 A – 40 A	12 V – 30 V	Yes

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** For MF-USHT035KX and MF-USHT050KX only.

Features

- Compliant with AEC-Q200 Stress Test Qualification for Passive Components in Automotive Applications
- 3 footprints in 0805, 1206 and 1210 size with low profile for space-constrained applications
- Surface mount packaging for automated assembly
- Operating temperature range up to 125 °C
- Low thermal derating factor
- Higher hold currents at elevated temperature
- RoHS compliant*
- Agency recognition**:  

Typical Applications***

- Overcurrent surge protection of electronic equipment required to operate at high operating temperature ranges
- Resettable fault protection of general electronic equipment
- Protection of automotive circuitry including engine control modules
- Battery management system
- Head unit control
- Ignition relay
- Side mirrors
- Encoders

Listing of typical applications is based on Bourns' knowledge of typical requirements placed on Bourns® products in generic applications. It's the customer/user's responsibility to validate suitability of Bourns® products for their chosen applications.

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.

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*** See legal disclaimer at <https://www.bourns.com/docs/legal/disclaimer.pdf>