



# DESIGN KIT RELEASE

## MULTIFUSE® PPTC RESETTABLE FUSES



### Bourns Introduces Eleven New Multifuse® PPTC Resettable Fuse Design Kits *High Temperature SMD, Radial and Standard SMD Series*

Riverside, California – May 31, 2024 – Bourns is pleased to announce the release of [eleven new Multifuse® PPTC Resettable Fuse Design Kits](#):

- |             |              |                       |
|-------------|--------------|-----------------------|
| MF-FSHT-LAB | MF-SMHT-LAB  | MF-LSMF-LAB1          |
| MF-PSHT-LAB | MF-RX/72-LAB | MF-LSMF-LAB2          |
| MF-NSHT-LAB | MF-FSMF-LAB  | MF-NSMF-LAB (Renewed) |
| MF-MSHT-LAB | MF-PSMF-LAB  |                       |

These new design kits contain a selection of automotive grade, high temperature models in 0603 to 3425 footprint sizes, a selection of 72 VDC radial MF-RX Series and a selection of standard SMD Series in 0603 to 2920 footprint sizes to provide design engineers with a variety of overcurrent protection solutions across a range of rated currents and working temperatures for quick-turn prototype testing. These eleven new design kits will further expand Bourns’ offering of Multifuse® PPTC Resettable Fuse Design Kits.

#### *High Temperature SMD Series*

Design Kit	Component Models Included	Footprint	Rated Current	Rated Voltage	AEC-Q200 Compliant
<b>MF-FSHT-LAB</b>	MF-FSHT005KX, MF-FSHT010KX & MF-FSHT016KX	0603	0.05 A - 0.16 A	12 VDC	No
<b>MF-PSHT-LAB</b>	MF-PSHT005KX, MF-PSHT010KX, MF-PSHT016KX, MF-PSHT020KX, MF-PSHT035KX & MF-PSHT050KX	0805	0.05 A - 0.5 A	12 VDC - 16 VDC	Yes
<b>MF-NSHT-LAB</b>	MF-NSHT010KX, MF-NSHT016KX, MF-NSHT020KX, MF-NSHT035KX, MF-NSHT050KX & MF-NSHT075KX	1206	0.1 A - 0.75 A	12 VDC - 30 VDC	Yes
<b>MF-MSHT-LAB</b>	MF-MSHT020KX, MF-MSHT035KX, MF-MSHT075KX, MF-MSHT110KX, MF-MSHT150KX & MF-MSHT175KX	1812	0.2 A - 1.75 A	9 VDC - 42 VDC	Yes
<b>MF-SMHT-LAB</b>	MF-SMHT136, MF-SMHT160 & MF-SMHT300	2920 - 3425	1.36 A - 3.0 A	16 VDC	Yes

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**Radial Leaded, Through-hole Series**

Design Kit	Component Models Included	Footprint	Rated Current	Rated Voltage	AEC-Q200 Compliant
<b>MF-RX/72-LAB</b>	MF-RX090/72, MF-RX110/72, MF-RX135/72, MF-RX160/72, MF-RX185/72, MF-RX250/72, MF-RX300/72 & MF-RX375/72	---	0.9 A - 3.75 A	72 VDC	No

**Surface Mount Standard Series**

Design Kit	Component Models Included	Footprint	Rated Current	Rated Voltage	AEC-Q200 Compliant
<b>MF-FSMF-LAB</b>	MF-FSMF010X, MF-FSMF020X, MF-FSMF025X, MF-FSMF035X & MF-FSMF050X	0603	0.1 A - 0.5 A	6 VDC - 15 VDC	No
<b>MF-PSMF-LAB</b>	MF-PSMF010X, MF-PSMF010/24X, MF-PSMF020X, MF-PSMF050X, MF-PSMF075X & MF-PSMF110X	0805	0.1 A - 1.1 A	6 VDC - 24 VDC	No
<b>MF-LSMF-LAB1</b>	MF-LSMF030X, MF-LSMF050X, MF-LSMF075/60X, MF-LSMF110/60X, MF-LSMF125/33X & MF-LSMF150/33X	2920	0.3 A - 1.5 A	33 VDC - 60 VDC	No
<b>MF-LSMF-LAB2</b>	MF-LSMF185/33X, MF-LSMF260/16X, MF-LSMF330/24X, MF-LSMF400/16X, MF-LSMF500/16X & MF-LSMF600/12X	2920	1.85 A - 6.0 A	12 VDC - 33 VDC	No
<b>MF-NSMF-LAB</b>	MF-NSMF005/60X, MF-NSMF010/60X, MF-NSMF012/48X, MF-NSMF025/30X, MF-NSMF050/24X, MF-NSMF075/16X, MF-NSMF110/16X & MF-NSMF125/8X	1206	0.05 A - 1.25 A	8 VDC - 60 VDC	No

Bourns continues to broaden its portfolio of Multifuse® PPTC Resettable Fuses to address the growing need for effective overcurrent protection in a variety of applications including transportation, telecom and networking equipment, computing and server storage, portable memory, handheld electronics and gaming systems, smart appliances, battery charging and power management, robotics and industrial automation.

Bourns® Multifuse® PPTC Resettable Fuses are RoHS compliant\*, halogen free\*\* (for selected series) and UL / CSA / TÜV recognized.

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### *High Temperature SMD Series*

Design Kit	Agency Recognition	RoHS Compliant*	Halogen Free**
<b>MF-FSHT-LAB</b>	UL/CSA/TÜV	Yes	No
<b>MF-PSHT-LAB</b>	UL/CSA/TÜV	Yes	No
<b>MF-NSHT-LAB</b>	UL/CSA/TÜV	Yes	No
<b>MF-MSHT-LAB</b>	UL/CSA/TÜV	Yes	No
<b>MF-SMHT-LAB</b>	---	Yes	Yes

### *Radial Leaded, Through-hole Series*

Design Kit	Agency Recognition	RoHS Compliant*	Halogen Free**
<b>MF-RX/72-LAB</b>	UL/CSA/TÜV	Yes	Yes

### *Surface Mount Standard Series*

Design Kit	Agency Recognition	RoHS Compliant*	Halogen Free**
<b>MF-FSMF-LAB</b>	UL/CSA/TÜV	Yes	Yes
<b>MF-PSMF-LAB</b>	UL/CSA/TÜV	Yes	Yes
<b>MF-LSMF-LAB1</b>	UL/CSA/TÜV	Yes	Yes
<b>MF-LSMF-LAB2</b>	UL/CSA/TÜV	Yes	Yes
<b>MF-NSMF-LAB</b>	---	Yes	Yes

For additional information on Bourns® Multifuse® PPTC Resettable Fuse products, please visit the Bourns website at [www.bourns.com/products/circuit-protection/resettable-fuses-multifuse-pptc](http://www.bourns.com/products/circuit-protection/resettable-fuses-multifuse-pptc). Check out the [Bourns® Multifuse® PPTC Resettable Fuse Technical Library](#) for many useful technical documents, application notes and brochures.

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.