**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 \( V_{\text{max}} \) as high as 16 VDC and \( I_{\text{max}} \) 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 \( V_{\text{max}} \) as high as 30 VDC and \( I_{\text{max}} \) 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 \( V_{\text{max}} \) as high as 30 VDC and \( I_{\text{max}} \) 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 (\( I_{\text{hold}} \))
- Higher maximum voltage ratings (\( V_{\text{max}} \))
- 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.

<table>
<thead>
<tr>
<th>Series</th>
<th>Size (EIA)</th>
<th>( I_{\text{hold}} ) (A)</th>
<th>( I_{\text{max}} ) (A)</th>
<th>( V_{\text{max}} ) (V)</th>
<th>RoHS Compliant*</th>
</tr>
</thead>
<tbody>
<tr>
<td>MF-PSHT</td>
<td>0805</td>
<td>0.05 A – 0.50 A</td>
<td>40 A</td>
<td>12 V – 16 V</td>
<td>Yes</td>
</tr>
<tr>
<td>MF-NSHT</td>
<td>1206</td>
<td>0.10 A – 0.75 A</td>
<td>20 A – 40 A</td>
<td>12 V – 30 V</td>
<td>Yes</td>
</tr>
<tr>
<td>MF-USHT</td>
<td>1210</td>
<td>0.10 A – 1.50 A</td>
<td>20 A – 40 A</td>
<td>12 V – 30 V</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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** 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**: UL, cUL, EAC

**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

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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](http://www.bourns.com). Should you have any questions, please feel free to contact Customer Service/Inside Sales.

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