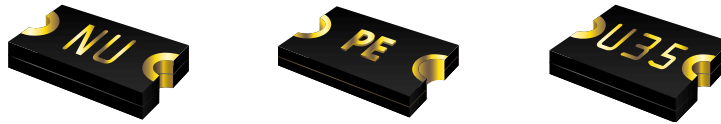


Product Update Memo

MULTIFUSE® PPTC RESETTABLE FUSES



MSL Rating Classification Updates for Select Multifuse® PPTC Resettable Fuse Model Families

Bourns® Model MF-USML, MF-NSML and MF-PSML Series

Riverside, California – February 28, 2019 – Select Bourns® Multifuse® PPTC Resettable Fuse model families are being reclassified from MSL 1 to MSL 2a. This reclassification will help to ensure that the products are placed in suitable storage conditions to optimize shelf life and floor life for customers using these Bourns® products. The reclassified products have been packaged using vacuum sealed tape and reel packaging with Moisture Barrier Bags since their first introduction. Consequently, prior storage in MSL 1 conditions should not have negatively impacted the reclassified products. The form, fit, function, quality, reliability, manufacturing process, and manufacturing location of the affected model families did not change as a result of this MSL rating reclassification. However, the following notes have been added to the packaging labels:

Storage condition: 40 °C max. / 70 % RH max.

Consume PPTC devices within four weeks after opening at 30 °C max. / 60 % RH max.

Additional information about Multifuse® PPTC Resettable Fuse MSL classifications can be found here: [Multifuse® Polymer PTC Resettable Fuse Moisture / Reflow Sensitivity Classification](#). Affected model families for this MSL reclassification are listed in the table below:

Affected Model Families		
MF-USML	MF-NSML	MF-PSML

Bourns encourages its authorized distributors and end customers to begin handling existing and new inventory of the affected model families in accordance with MSL 2a storage specifications, but as noted above, Bourns does not anticipate any adverse effects to the performance or reliability of the affected model families that have thus far been stored under MSL 1 recommended storage conditions.

Implementation dates are as follows:

Date that deliveries of products with updated MSL rating and additional packaging label storage condition notes began: **January 1, 2019**

Should you have any further questions or need additional information, please feel free to contact [Bourns Customer Service/Inside Sales](#).

MF1909