

# MHP-TAM DEVICES:

## MHP with Thermal Activation

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The rapidly expanding market for ultra-thin portable electronic devices, such as media tablets and ultra-thin PCs, has created demand for very thin, low-profile, lightweight and high-capacity Lithium Polymer (LiP) and prismatic cells.

A new MHP (Metal Hybrid PPTC) device, the MHP-TAM device, offers a 9V<sub>DC</sub> rating and a higher current rating than typical battery strap devices. This helps them meet the battery safety requirements of higher-capacity LiP and prismatic batteries found in the latest tablet and ultra-thin computing products. Hybrid MHP technology connects a bimetal protector in parallel with a PPTC (polymeric positive temperature coefficient) device. The resulting MHP-TAM (Thermal Activation) series helps provide resettable overtemperature protection, while utilizing the PPTC device to act as a heater and to help keep the bimetal latched until the fault is removed.

### BENEFITS

- Capable of handling the higher voltages and battery discharge rates found in high-capacity LiP and prismatic cell applications
- Helps provide resettable overtemperature protection in high-capacity LiP and prismatic cell applications

### FEATURES

- 9V<sub>DC</sub> rating
- Two levels of current carrying capacity:
  - Low current (nominal 6A hold current @25°C)
  - High current (nominal 15A hold current @25°C)
- Multiple activation temperature ratings (72°C, 77°C, 82°C, 85°C, 90°C)
- Compact size (L: 5.8mm x W: 3.85mm x H: 1.15mm) allows for ultra-thin battery pack designs



### APPLICATIONS

Battery cell protection for high-capacity Lithium Polymer and prismatic cells used in:

- Notebook PCs
- Ultra-book
- Tablets
- Smart phones