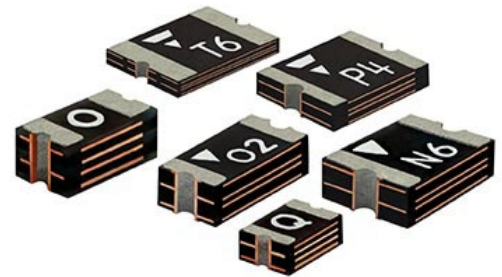


Space-Saving SMD Polymer PTC Thermistors Deliver Fast Resettable Overcurrent Protection While Improving Efficiency; Offer High Holding Current to 5.0 A, Fast Trip Times Down to 50 ms, and Low Resistance Down to 5 mΩ in Six Compact Case Sizes

Product Benefits:

- High holding current to 5.0 A
- Fast trip times down to 50 ms
- Low resistance down to 5 mΩ
- Offered in six compact case sizes from 0603 to 2920
- Low heights ranging from 0.3 mm to 2 mm
- Compatible with lead (Pb)-free soldering processes up to 260 °C
- SPICE and 3D models are available to support designers during development
- RoHS-compliant and halogen-free



Market Applications:

- Resettable overcurrent protection in low voltage circuits for computer USB-C ports; power over Ethernet (PoE) applications for computer peripherals and telecom equipment; battery-powered industrial tools and consumer devices and appliances; industrial automation systems; and home automation heating controls

The News:

Vishay Intertechnology announces that it has extended its overcurrent protection portfolio with the introduction of six new surface-mount polymer positive temperature coefficient (PTC) thermistor series designed to save board space and increase efficiency in computer, industrial, and consumer applications.

- The devices' low resistance reduces voltage drop and improves efficiency
- The PTC thermistors' compact case sizes and low heights minimize board space requirements

The Key Specifications:

Part #	PPTC0603E3	PPTC0805E3	PPTC1206E3	PPTC1210E3	PPTC1812E3	PPTC2920E3
Case size	0603	0805	1206	1210	1812	2920
I _{hold} (A)	0.02 to 0.5	0.05 to 0.75	0.05 to 1.1	0.05 to 1.5	0.14 to 2.6	0.5 to 5.0
I _{trip} (A)	0.06 to 1.0	0.15 to 1.5	0.15 to 2.2	0.15 to 3.0	0.34 to 5	1 to 10
V _{max} (V _{DC})	6 to 60	6 to 30	8 to 60	6.0 to 90	8 to 60	15 to 60
I _{max} (A)	40	40 to 100	10 to 100	10 to 100	10 to 100	10 to 40
P _D typ. (W)	0.5	0.5 to 0.6	0.6 to 0.8	0.6 to 1.5	0.8 to 1	1.5 to 2
Max. trip time (s)	0.08 to 1.0	0.10 to 1.5	0.1 to 1.5	0.1 to 1.5	0.15 to 2.5	0.30 to 20
R _{min.} (Ω)	0.1 to 12	0.09 to 3.6	0.04 to 3.6	0.04 to 3.6	0.015 to 1.5	0.005 to 4.0
R _{1 max.} (Ω)	0.68 to 70	0.35 to 20	0.21 to 20	0.11 to 50	0.047 to 6	0.025 to 1.4



NEW PRODUCT INFORMATION



Product Group: Vishay BCcomponents, Non-Linear Resistors / June 2026

Availability:

Samples and production quantities of the new PTC thermistors are available now, with lead times of 12 weeks.

To access the product datasheets on the Vishay Website, go to

<http://www.vishay.com/ppg?29254> (PPTC0603E3)

<http://www.vishay.com/ppg?29255> (PPTC0805E3)

<http://www.vishay.com/ppg?29256> (PPTC1206E3)

<http://www.vishay.com/ppg?29257> (PPTC1210E3)

<http://www.vishay.com/ppg?29258> (PPTC1812E3)

<http://www.vishay.com/ppg?29259> (PPTC2920E3)

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