



Vishay Intertechnology SMD Polymer PTC Thermistors Deliver Fast Resettable Overcurrent Protection While Improving Efficiency

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Space-Saving Devices 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

MALVERN, Pa., June 30, 2026 (GLOBE NEWSWIRE) -- Vishay Intertechnology, Inc. (NYSE: VSH) today announced 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 Vishay BCcomponents [PPTC0603E3](#), [PPTC0805E3](#), [PPTC1206E3](#), [PPTC1210E3](#), [PPTC1812E3](#), and [PPTC2920E3](#) series provide 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.

For these applications, the thermistors combine high holding current to 5.0 A with fast trip times down to 50 ms, while low resistance down to 5 mΩ reduces voltage drop and improves efficiency. To minimize board space requirements, the devices are offered in six compact case sizes from 0603 to 2920, with low heights ranging from 0.3 mm to 2 mm.

RoHS-compliant and halogen-free, the PPTC0603E3, PPTC0805E3, PPTC1206E3, PPTC1210E3, PPTC1812E3, and PPTC2920E3 series are compatible with lead (Pb)-free soldering processes up to 260 °C. SPICE and 3D models of the thermistors are available to support designers during development.

Device Specification Table:

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

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

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Vishay manufactures one of the world's largest portfolios of discrete semiconductors and passive electronic components that are essential to innovative designs in the automotive, industrial, computing, consumer, telecommunications, military, aerospace, and medical markets. Serving customers worldwide, Vishay is **The DNA of tech**.[®] Vishay Intertechnology, Inc. is a Fortune 1000 Company listed on the NYSE (VSH). More on Vishay at www.Vishay.com.

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Vishay on Facebook: <http://www.facebook.com/VishayIntertechnology>

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Links to product datasheets:

<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)

Link to product photo:

<https://www.flickr.com/photos/vishay/albums/72177720333673949>

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