

NTC THERMISTOR

NTCS....E3....SMT

SMD NTC Thermistors with Enhanced Stability



KEY BENEFITS

- Enhanced stability throughout component lifetime (maximum variation of initial R25 $^{\circ}$ C of \pm 0.5 $^{\circ}$ C after 10 000 hours at any temperature)
- High R25 values (> = 100 k Ω) reduce self-heating effects
- Ideal for wave and reflow soldering
- One R25 °C-value per case in 0402, 0603, and 0805

APPLICATIONS

- Temperature sensing circuits and compensation for:
 - Heat counters and other smart meters
 - Body thermometers
 - Other medical applications such as pacemakers and other implantable devices

RESOURCES

- Datasheet: NTCS....E3....SMT www.vishay.com/doc?29151
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912
- For technical questions contact nlr@vishay.com





One of the World's Largest Manufacturers of Discrete Semiconductors and Passive Components





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ELECTRICAL DATA AND ORDERING INFORMATION					
VISHAY SAP ORDERING NUMBER	R ₂₅ -VALUE (kΩ)	TOLERANCE ON R ₂₅ (%)	B _{25/85} -VALUE (K)	B _{25/85} -TOLERANCE (%)	DESCRIPTION
NTCS0402E3214SMT	210	1	3590	± 1	SMD NTC thermistor 0402 Ni barrier
NTCS0603E3124SMT	122	1	3590	± 1	SMD NTC thermistor 0603 Ni barrier
NTCS0805E3104SMT	100	1	3590	± 1	SMD NTC thermistor 0805 Ni barrier

RELIABILITY INFORMATION

After a test of storage at any temperature within the temperature range, the drift of electrical resistance at 25 $^{\circ}$ C is always lower than \pm 0.5 $^{\circ}$ C (see typical figures below for drift after storage during 10 000 h at maximal temperature 125 $^{\circ}$ C). The same type of stability is also observed in thermal shocks between the two extreme values of the temperature range. The tests are performed according to IEC 60068-2-2 and 2-14.

