



SMD Series

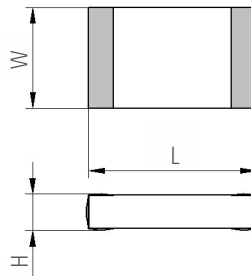
SMD nickel sensor

For the automatic assembling on PCBs

Benefits & Characteristics

- Vibration and temperature shock resistant
- Simple linearization
- Excellent long-term stability
- Low self-heating
- Reflow solderable
- Available as Tape&Reel
- Customer specific sensor available upon request

Illustration¹⁾



1) For actual size, see dimensions

Technical Data

Operating temperature range:	-60 °C to +150 °C
Nominal resistance:*	891 Ω at 0 °C
Characteristics curve:*	6370 ppm/K (Nickel NJ)
Long-term stability:	< 0.1 % at 1000 h at maximal operating temperature
Tolerance class (dependent on temperature range):*	IST AG reference Customer specific K
Connections:*	2P (Contacts tin-coated (100% Sn), reflow solderable) Bondable contacts without bumps available on request
Solderability:	235 °C ≤ 8 s (DIN IEC 68 2-20, Ta Meth. 1)
Resistance to soldering heat: ¹⁾	260 °C 10 s (DIN IEC 68 2-20, Ta Meth. 1A)
<small>1) The soldering process can influence accuracy</small>	
Recommended applied current: ²⁾	0.3 mA at 891 Ω
<small>2) Self-heating must be considered</small>	
Other alternatives:*	Substrate thickness
Packaging:	< 100 pcs in bags > 100 pcs taped on reel (sensor side up or sensor side down)

* Customer-specific alternatives available



Order Information - 2P (contacts tin-coated (100% Sn), LMP lead-free (reflow solderable))

Size Dimensions (L x W x H in mm) Class K - Customer specific

Packed in bags (< 100 pcs)

6370 ppm/K (Nickel NJ)

Nominal resistance: 891 Ω at 0 °C

0805	2 x 1.2 x 0.4		NJ891.0805.2P.K
Order code			020.00541

Taped on reel - sensor side up or sensor side down (> 100 pcs)

6370 ppm/K (Nickel NJ)

Nominal resistance: 891 Ω at 0 °C

0805	2 x 1.2 x 0.4	Sensor side up	NJ891.0805.2P.K.S
Order code			020.00657
0805	2 x 1.2 x 0.4	Sensor side down	NJ891.0805.2P.K.S
Order code			020.00624

Additional Documents

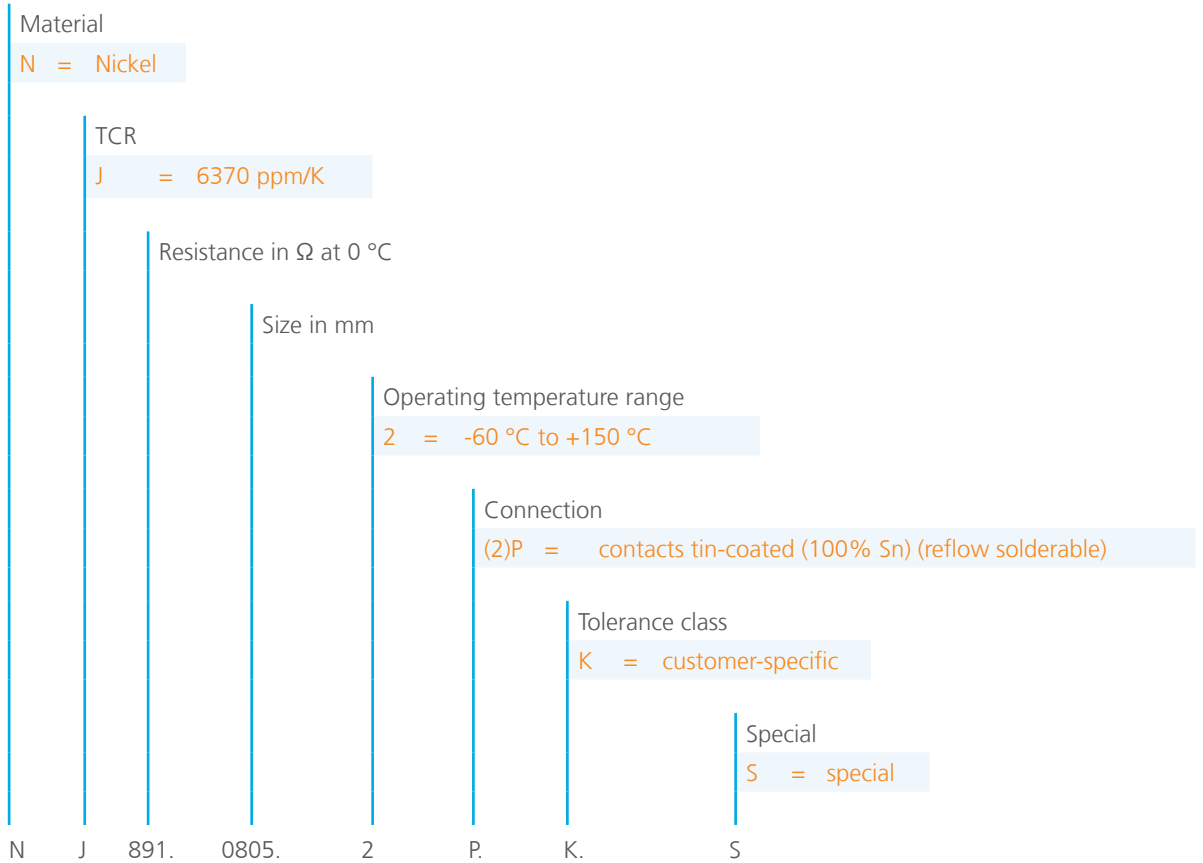
Application note:	Document name: ATN_E
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Order Information

SMD nickel sensor

Secondary reference



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