



SMD Series



SMD nickel sensor

For automated assembly on PCBs



Benefits & characteristics



- Vibration and temperature shock resistant

- Reflow solderable

- Simple linearization

- Available as Tape&Reel

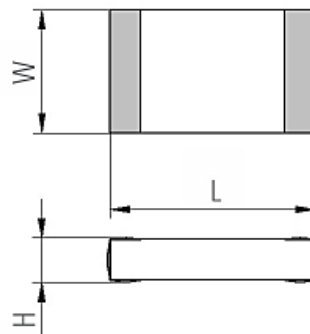
- Excellent long-term stability

- Customer-specific sensor available upon request

- Low self-heating



Illustration ¹⁾



¹⁾ for actual size see dimensions in order information



Technical Data



Nominal resistance:* 891 Ω at 0 °C



Characteristics curve:* 6370 ppm/K (Nickel NJ)



Tolerance class:* **iST reference**
(dependent on temperature range) Customer specific K



Connection:* 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:²⁾ 260 °C 10 s (DIN IEC 68 2-20, Ta Meth. 1A)

2)The soldering process can influence accuracy

Recommended applied current:³⁾ 0.3 mA at 891 Ω

3) Self-heating must be considered

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

Nominal Resistance	Size	Dimensions (L x W x H in mm)	Class*	Order code	Product name (secondary reference)	Wire length in mm	Special
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2P (contacts tin-coated (100% Sn), LMP lead-free (reflow solderable))

Packed in bags (< 100 pcs)

6370 ppm/K (Nickel NJ)

891 Ω	0805	2 x 1.2 x 0.4	Class K	103258	NJ891.0805.2P.K		
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Taped on reel - sensor side up or sensor side down (> 100 pcs)

6370 ppm/K (Nickel NJ)

891 Ω	0805	2 x 1.2 x 0.4	Class K	103252	NJ891.0805.2P.K.S		Sensor side up
891 Ω	0805	2 x 1.2 x 0.4	Class K	On request	NJ891.0805.2P.K.S		Sensor side down

Additional Documents

Application Note	Document name: ATN_E
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Order Information

SMD nickel Sensor - Secondary reference



Material

N = Nickel

TCR

J = 6370 ppm/K

Resistance in Ω at 0°C

891.

Size in mm

0805.

Operating temperature range

2 = -60 °C to + 150 °C

Connection

(2)P = contacts tin-coated (100% Sn) (reflow solderable)

Tolerance class

K = customer-specific

Special

S = special

N

J

891.

0805.

2

P.

K.

S



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