

DATA SHEET

PRODUCT SMD NTC Thermistor

SERIES JSN Series

PART NO.

**QUICK
REFERENCE
DATA**

PARAMETER	VALUE	UNIT
Size	0201(0603)~0805(2012)	Inch(mm)
Resistance Value R25	10~ 220	KΩ
B25/50	3380~4250	K
B25/85	3435~4360	K

ISSUE DATE 2023/3/23

REVISION DATE 2023/3/23

REFERENCE NO.

RoHS COMPLIANCE ITEM

Halogen Free

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SMD NTC Thermistor JSN series



Features

1. RoHS / Halogen-Free (HF) compliant
2. Highly reliable structure
3. Operating temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
4. Agency recognition: UL / TUV

Applications

1. IT equipment
2. Mobile devices
3. Battery packs
4. Office automation equipment
5. Automotive

How to order

Part Number Code															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
J	S	N	A	1	0	3	F	3	4	4	F	B	B	X	G
①			②	③			④	⑤			⑥	⑦	⑧		

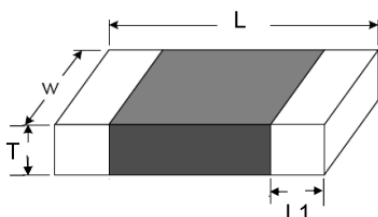
①	Product Type	JSN series	⑤	B Value	344 = 3435 K 405 = 4050 K
②	Size	Z = 0201 (0603) A = 0402 (1005) B = 0603 (1608) C = 0805 (2012)	⑥	Tolerance of B Value	F = $\pm 1\%$ G = $\pm 2\%$ H = $\pm 3\%$ J = $\pm 5\%$
③	Zero Power Resistance @25°C (R25)	502 = 5K Ω 103 = 10K Ω 104 = 100K Ω	⑦	Definition of B Value	A = 25/50 B = 25/85 C = 25/100
④	Tolerance of R25	F = $\pm 1\%$ G = $\pm 2\%$ H = $\pm 3\%$ J = $\pm 5\%$ K = $\pm 10\%$	⑧	Optional Suffix	Internal Control Code

Safety Certification

Standard NO	UL / CUL	TUV
	UL1434	EN 60539-1:2016 EN 60539-2:2004 +A1
File NO	E171531	R 50267437

Structure and Dimension

Unit in mm



Size	L	W	T	L1
JSNZ(0201)	0.60 $\pm$ 0.05	0.30 $\pm$ 0.05	0.30 $\pm$ 0.05	0.15 $\pm$ 0.05
JSNA(0402)	1.00 $\pm$ 0.15	0.50 $\pm$ 0.15	0.50 $\pm$ 0.15	0.25 $\pm$ 0.10
JSNB(0603)	1.60 $\pm$ 0.15	0.80 $\pm$ 0.15	0.80 $\pm$ 0.15	0.30 $\pm$ 0.20
JSNC(0805)	2.00 $\pm$ 0.20	1.25 $\pm$ 0.20	0.85 $\pm$ 0.20	0.50 $\pm$ 0.30

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Electrical Characteristics

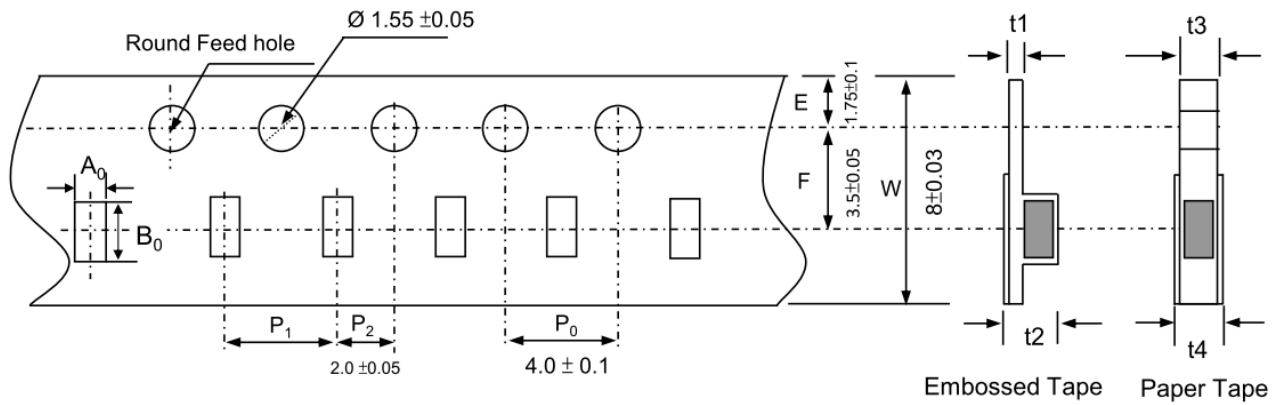
Part No.	Zero Power Resistance at 25°C	Tolerance of R25	B 25/50 Value	Tolerance of B Value	Dissipation Factor	Thermal Time Constant	Max. Power Rating at 25°C	Safety Approvals
	R 25 (Ω)	(± %)	(K)	(± %)	δ(mW/°C)	τ(sec.)	(mW)	
JSNZ103X338YA	10,000	10,5,3,2,1	3380	5,3,2,1	Approx. 1.0	Approx. 3.0	100	■ ■
JSNZ473X405YA	47,000	10,5,3,2,1	4050	5,3,2,1	Approx. 1.0	Approx. 3.0	100	■ ■
JSNZ104X425YA	100,000	10,5,3,2,1	4250	5,3,2,1	Approx. 1.0	Approx. 3.0	100	■ ■
JSNZ474X395YA	470,000	10,5,3,2,1	3950	5,3,2,1	Approx. 1.0	Approx. 3.0	100	
JSNA103X338YA	10,000	10,5,3,2,1	3380	5,3,2,1	Approx. 1.7	Approx. 3.0	170	■ ■
JSNA104X425YA	100,000	10,5,3,2,1	4250	5,3,2,1	Approx. 1.7	Approx. 3.0	170	■ ■
JSNB103X338YA	10,000	10,5,3,2,1	3380	5,3,2,1	Approx. 2.1	Approx. 3.1	210	■ ■
JSNB104X420YA	100,000	10,5,3,2,1	4200	5,3,2,1	Approx. 2.1	Approx. 3.1	210	■ ■
JSNB104X425YA	100,000	10,5,3,2,1	4250	5,3,2,1	Approx. 2.1	Approx. 3.1	210	■ ■
JSNC103X338YA	10,000	10,5,3,2,1	3380	5,3,2,1	Approx. 2.4	Approx. 3.0	240	■ ■
JSNC104X425YA	100,000	10,5,3,2,1	4250	5,3,2,1	Approx. 2.4	Approx. 3.0	240	■ ■

Part No.	Zero Power Resistance at 25°C	Tolerance of R25	B 25/85 Value	Tolerance of B Value	Dissipation Factor	Thermal Time Constant	Max. Power Rating at 25°C	Safety Approvals
	R 25 (Ω)	(± %)	(K)	(± %)	δ(mW/°C)	τ(sec.)	(mW)	
JSNZ103X344YB	10,000	10,5,3,2,1	3435	5,3,2,1	Approx. 1.0	Approx. 3.0	100	■ ■
JSNZ474X405YB	470,000	10,5,3,2,1	4050	5,3,2,1	Approx. 1.0	Approx. 3.0	100	
JSNA103X344YB	10,000	10,5,3,2,1	3435	5,3,2,1	Approx. 1.7	Approx. 3.0	170	■ ■
JSNA473X405YB	47,000	10,5,3,2,1	4050	5,3,2,1	Approx. 1.7	Approx. 3.0	170	■ ■
JSNA104X405YB	100,000	10,5,3,2,1	4050	5,3,2,1	Approx. 1.7	Approx. 3.0	170	■ ■
JSNA104X431YB	100,000	10,5,3,2,1	4310	5,3,2,1	Approx. 1.7	Approx. 3.0	170	■ ■
JSNB682X344YB	6,800	10,5,3,2,1	3435	5,3,2,1	Approx. 2.1	Approx. 3.1	210	■ ■
JSNB103X344YB	10,000	10,5,3,2,1	3435	5,3,2,1	Approx. 2.1	Approx. 3.1	210	■ ■
JSNB103X397YB	10,000	10,5,3,2,1	3970	5,3,2,1	Approx. 2.1	Approx. 3.1	210	■ ■
JSNB473X395YB	47,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.1	Approx. 3.1	210	■ ■
JSNB473X405YB	47,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.1	Approx. 3.1	210	■ ■
JSNB503X395YB	50,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.1	Approx. 3.1	210	■ ■
JSNB104X395YB	100,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.1	Approx. 3.1	210	■ ■
JSNB104X405YB	100,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.1	Approx. 3.1	210	■ ■
JSNB104X436YB	100,000	10,5,3,2,1	4360	5,3,2,1	Approx. 2.1	Approx. 3.1	210	■ ■
JSNB104X440YB	100,000	10,5,3,2,1	4400	5,3,2,1	Approx. 2.1	Approx. 3.1	210	■ ■
JSNB204X406YB	200,000	10,5,3,2,1	4055	5,3,2,1	Approx. 2.1	Approx. 3.1	210	■ ■
JSNC502X344YB	5,000	10,5,3,2,1	3435	5,3,2,1	Approx. 2.4	Approx. 7.5	240	■
JSNC682X344YB	6,800	10,5,3,2,1	3435	5,3,2,1	Approx. 2.4	Approx. 7.5	240	
JSNC103X344YB	10,000	10,5,3,2,1	3435	5,3,2,1	Approx. 2.4	Approx. 7.5	240	■ ■
JSNC473X400YB	47,000	10,5,3,2,1	4000	5,3,2,1	Approx. 2.4	Approx. 7.5	240	■ ■
JSNC503X400YB	50,000	10,5,3,2,1	4000	5,3,2,1	Approx. 2.4	Approx. 7.5	240	■
JSNC683X400YB	68,000	10,5,3,2,1	4000	5,3,2,1	Approx. 2.4	Approx. 7.5	240	■ ■
JSNC104X398YB	100,000	10,5,3,2,1	3980	5,3,2,1	Approx. 2.4	Approx. 7.5	240	■ ■
JSNC104X405YB	100,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.4	Approx. 7.5	240	■ ■
JSNC204X395YB	200,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.4	Approx. 7.5	240	■ ■

※ X : R Tolerance, Y : B Value Tolerance

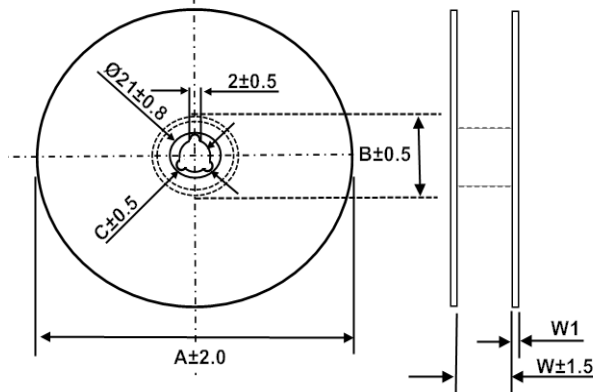
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Packing



Dimension of Paper Tape

Size	A0 ±0.1 (mm)	B0 ±0.1 (mm)	P1 ±0.1 (mm)	t1 / t2 (mm)	Quantity / Reel(Pcs)
JSNZ (0201)	0.38	0.68	2	t2 ≤ 0.5	15000
JSNA (0402)	0.65	1.15	4	1.0max / 1.1max	10000
JSNB (0603)	1.10	1.90	4	1.0max / 1.1max	4000
JSNC (0805)	1.50	2.35	4	1.0max / 1.1max	4000



Reel Specification

Unit in mm

Size	A	B	C	W	W ₁
JSNZ (0201)	178	60	13	10	1.6
JSNA (0402)	178	60	13	10	1.6
JSNB (0603)	178	60	13	10	1.6
JSNC (0805)	178	60	13	10	1.6