

PRODUCT SPECIFICATION

PRODUCT : NTC SMD

TYPE : JSN SERIES

CUSTOMER :

APPROVED BY CUSTOMER

VENDOR :

☐ **HITANO ENTERPRISE CORP.**
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MAKER :

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JOYIN

[illegible]



Features

RoHS / Halogen-Free (HF) compliant

Highly reliable structure

Operating temperature range : -40°C ~ + 125°C

Agency recognition : UL / TUV

Applications

IT equipment

Mobile devices

Battery packs

Office automation equipment

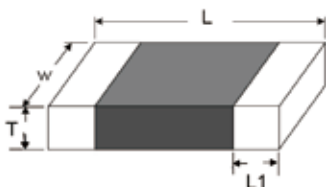
How to Order

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 = ±1% G = ±2% H = ±3% J = ±5%
③	Zero Power Resistance @25°C (R25)	502 = 5KΩ 103 = 10KΩ 104 = 100KΩ	⑦	Definition of B Value	A = 25/50 B = 25/85
④	Tolerance of R25	F = ±1% G = ±2% H = ±3% J = ±5% K = ±10%	⑧	Optional Suffix	Internal Control Code

Structure and Dimension

Unit : mm



Size	L	W	T	L1
JSNZ(0201)	0.60±0.05	0.30±0.05	0.30 Max	0.15±0.05
JSNA(0402)	1.00±0.15	0.50±0.15	0.65 Max	0.25±0.10
JSNB(0603)	1.60±0.15	0.80±0.15	1.00 Max	0.30±0.20
JSNC(0805)	2.00±0.20	1.25±0.20	1.10 Max	0.50±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. 1.7	Approx. 3.0	170	■
JSNC104X425YA	100,000	10,5,3,2,1	4250	5,3,2,1	Approx. 1.7	Approx. 3.0	170	■

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	■ ■
JSNC104X400YB	100,000	10,5,3,2,1	4000	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

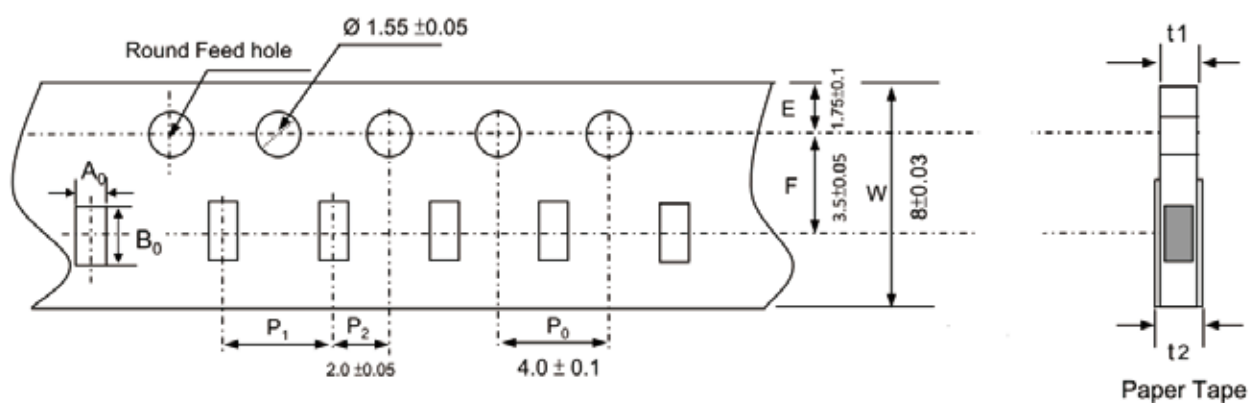
Reliability-SMD Type NTC Thermistor for Temperature Sensing (JSN)

Item	Standard	Test condition	Specifications															
Bending strength	IEC 60068-2-21	Speed <0.5mm/sec Duration : 10sec on PCB Warp : 2mm	No visible damage △R25/R25≤±5%															
Solderability	IEC 60068-2-58	245±5℃ , 3±0.3 sec.	Above 95% in the terminal surface shall be with new solder															
Resistance to soldering heat	IEC 60068-2-58	260±5℃ , 10±1 sec.	No visible damage △R25/R25≤±5%															
High temperature storage	IEC 60068-2-2	125±5℃ , 1000±24 hrs.	No visible damage △R25/R25≤±5%															
Damp Heat, Steady State	IEC 60068-2-78	40±2℃ , 90～95%RH , 1000±24 hrs.	No visible damage △R25/R25≤±5%															
Rapid Change of temperature	IEC 60068-2-14	Temperature cycle shall be repeated 5 cycles on PCB <table><tr><th>Step</th><th>Temperature (℃)</th><th>Period (minutes)</th></tr><tr><td>1</td><td>-40±5</td><td>30±3</td></tr><tr><td>2</td><td>Room temperature</td><td>5±3</td></tr><tr><td>3</td><td>125±5</td><td>30±3</td></tr><tr><td>4</td><td>Room temperature</td><td>5±3</td></tr></table>	Step	Temperature (℃)	Period (minutes)	1	-40±5	30±3	2	Room temperature	5±3	3	125±5	30±3	4	Room temperature	5±3	No visible damage △R25/R25≤±5%
Step	Temperature (℃)	Period (minutes)																
1	-40±5	30±3																
2	Room temperature	5±3																
3	125±5	30±3																
4	Room temperature	5±3																
Max. Power Dissipation	IEC 60539-1 4.26.3	25±5℃ , Pmax , 1000±24 hrs.	No visible damage △R25/R25≤±5%															

		
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Packing

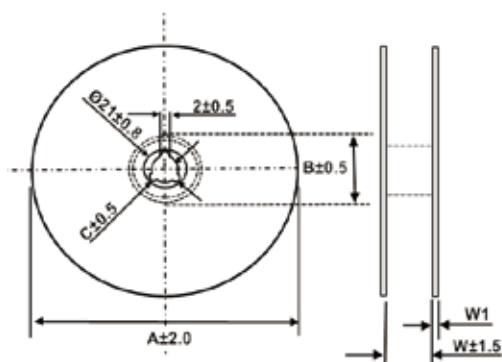
Taping Specification



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