



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	3380~4400	K
B25/85	3435~4490	K

ISSUE DATE

2023/03/23

REVISION DATE

2025/01/20

REFERENCE NO.

RoHS COMPLIANCE ITEM

Halogen Free

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Features

1. RoHS / Halogen-Free (HF) compliant
2. Highly reliable structure
3. Operating temperature range: -40°C ~ + 125°C
4. Agency recognition: UL / TUV

Applications

1. IT equipment
2. Mobile devices
3. Battery packs
4. 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		

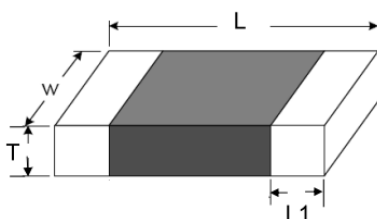
①	Product Type	JSN series	⑤	B Value	344 = 3435 K 405 = 4050 K
②	Size	Z = 0201 (0603) A = 0402 (1005) B = 0603 (1608) C = 0805 (2012)	⑥	Tolerance of B Value	D = ± 0.5% H = ± 3% E = ± 0.7% J = ± 5% F = ± 1% G = ± 2%
③	Zero Power Resistance @25°C (R25)	502 = 5KΩ 103 = 10KΩ 104 = 100KΩ	⑦	Definition of B Value	A = 25/50 B = 25/85 C = 25/100
④	Tolerance of R25	D = ± 0.5% H = ± 3% E = ± 0.7% J = ± 5% F = ± 1% K = ± 10% G = ± 2%	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±0.05	0.30±0.05	0.30±0.05	0.15±0.05
JSNA(0402)	1.00±0.15	0.50±0.15	0.50±0.15	0.25±0.10
JSNB(0603)	1.60±0.15	0.80±0.15	0.80±0.15	0.30±0.20
JSNC(0805)	2.00±0.20	1.25±0.20	0.85±0.20	0.50±0.30

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
	R 25 (Ω)	(± %)	(K)	(± %)	δ(mW/°C)	τ(sec.)	(mW)
JSNZ103X338YABXG	10,000	10,5,3,2,1	3380	5,3,2,1	Approx. 1.0	Approx. 3.0	100
JSNZ473X405YABXG	47,000	10,5,3,2,1	4050	5,3,2,1	Approx. 1.0	Approx. 3.0	100
JSNZ104X425YABXG	100,000	10,5,3,2,1	4250	5,3,2,1	Approx. 1.0	Approx. 3.0	100
JSNZ474X395YABXG	470,000	10,5,3,2,1	3950	5,3,2,1	Approx. 1.0	Approx. 3.0	100
JSNA103X337YABXG	10,000	10,5,3,2,1	3370	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA103X338YABXG	10,000	10,5,3,2,1	3380	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA103X390YABXG	10,000	10,5,3,2,1	3900	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA153X390YABXG	15,000	10,5,3,2,1	3900	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA333X390YABXG	33,000	10,5,3,2,1	3900	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA473X395YABXG	47,000	10,5,3,2,1	3950	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA473X405YABXG	47,000	10,5,3,2,1	4050	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA104X395YABXG	100,000	10,5,3,2,1	3950	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA104X405YABXG	100,000	10,5,3,2,1	4050	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA104X410YABXG	100,000	10,5,3,2,1	4100	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA104X423YABXG	100,000	10,5,3,2,1	4230	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA104X425YABXG	100,000	10,5,3,2,1	4250	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA204X395YABXG	200,000	10,5,3,2,1	3950	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA104X425YAEWG	100,000	10,5,3,2,1	4250	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNB103X337YABXG	10,000	10,5,3,2,1	3370	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB103X338YABXG	10,000	10,5,3,2,1	3380	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB103X395YABXG	10,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB153X395YABXG	15,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB154X450YABXG	150,000	10,5,3,2,1	4500	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB333X405YABXG	33,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB473X390YABXG	47,000	10,5,3,2,1	3900	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB473X395YABXG	47,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB473X405YABXG	47,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB474X450YABXG	470,000	10,5,3,2,1	4500	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB503F390YABXG	50,000	10,5,3,2,1	3900	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB503F395YABXG	50,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB503X405YABXG	50,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB683F390YABXG	68,000	10,5,3,2,1	3900	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB683F395YABXG	68,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB683X405YABXG	68,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB684X450YABXG	680,000	10,5,3,2,1	4500	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X395YABXG	100,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X405YABXG	100,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X410YABXG	100,000	10,5,3,2,1	4100	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X420YABXG	100,000	10,5,3,2,1	4200	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X425YABXG	100,000	10,5,3,2,1	4250	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X436YABXG	100,000	10,5,3,2,1	4360	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X440YABXG	100,000	10,5,3,2,1	4400	5,3,2,1	Approx. 2.1	Approx. 3.1	210

※ X : R Tolerance, Y : B Value Tolerance

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
	R 25 (Ω)	(± %)	(K)	(± %)	δ(mW/°C)	τ(sec.)	(mW)
JSNB154X395YABXG	150,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB204X395YABXG	200,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB103X338YAEWG	10,000	10,5,3,2,1	3380	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNC103X338YABXG	10,000	10,5,3,2,1	3380	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC103X361YABXG	10,000	10,5,3,2,1	3610	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC103X390YABXG	10,000	10,5,3,2,1	3900	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC103X395YABXG	10,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC473X390YABXG	47,000	10,5,3,2,1	3900	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC473X395YABXG	47,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC503X395YABXG	50,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC683X395YABXG	68,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC683X405YABXG	68,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC104X395YABXG	100,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC104X420YABXG	100,000	10,5,3,2,1	4200	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC104X425YABXG	100,000	10,5,3,2,1	4250	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC204X395YABXG	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

Electrical Characteristics

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
	R 25 (Ω)	(± %)	(K)	(± %)	δ(mW/°C)	τ(sec.)	(mW)
JSNZ103X344YBBXG	10,000	10,5,3,2,1	3435	5,3,2,1	Approx. 1.0	Approx. 3.0	100
JSNZ474X405YBBXG	470,000	10,5,3,2,1	4050	5,3,2,1	Approx. 1.0	Approx. 3.0	100
JSNA103X344YBBXG	10,000	10,5,3,2,1	3435	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA103X395YBBXG	10,000	10,5,3,2,1	3950	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA153X395YBBXG	15,000	10,5,3,2,1	3950	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA333X410YBBXG	33,000	10,5,3,2,1	4100	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA473X405YBBXG	47,000	10,5,3,2,1	4050	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA473X410YBBXG	47,000	10,5,3,2,1	4100	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA104X398YBBXG	100,000	10,5,3,2,1	3980	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA104X405YBBXG	100,000	10,5,3,2,1	4050	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA104X410YBBXG	100,000	10,5,3,2,1	4100	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA104X419YBBXG	100,000	10,5,3,2,1	4190	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA104X420YBBXG	100,000	10,5,3,2,1	4200	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA104X431YBBXG	100,000	10,5,3,2,1	4310	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA204X405YBBXG	200,000	10,5,3,2,1	4050	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNA103X344YBEWG	10,000	10,5,3,2,1	3435	5,3,2,1	Approx. 1.7	Approx. 3.0	170
JSNB103X344YBBXG	10,000	10,5,3,2,1	3435	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB103X361YBBXG	10,000	10,5,3,2,1	3610	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB103X397YBBXG	10,000	10,5,3,2,1	3970	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB103X398YBBXG	10,000	10,5,3,2,1	3980	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB153X397YBBXG	15,000	10,5,3,2,1	3970	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB333X410YBBXG	33,000	10,5,3,2,1	4100	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB473X395YBBXG	47,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB473X398YBBXG	47,000	10,5,3,2,1	3980	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB473X405YBBXG	47,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB503X395YBBXG	50,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB682X344YBBXG	6,800	10,5,3,2,1	3435	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB683X405YBBXG	68,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB683X410YBBXG	68,000	10,5,3,2,1	4100	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X395YBBXG	100,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X398YBBXG	100,000	10,5,3,2,1	3980	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X400YBBXG	100,000	10,5,3,2,1	4000	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X405YBBXG	100,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X410YBBXG	100,000	10,5,3,2,1	4100	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X415YBBXG	100,000	10,5,3,2,1	4150	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X419YBBXG	100,000	10,5,3,2,1	4190	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X420YBBXG	100,000	10,5,3,2,1	4200	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X430YBBXG	100,000	10,5,3,2,1	4300	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X436YBBXG	100,000	10,5,3,2,1	4360	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X440YBBXG	100,000	10,5,3,2,1	4400	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB104X449YBBXG	100,000	10,5,3,2,1	4485	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB154X398YBBXG	150,000	10,5,3,2,1	3980	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB154X406YBBXG	150,000	10,5,3,2,1	4060	5,3,2,1	Approx. 2.1	Approx. 3.1	210

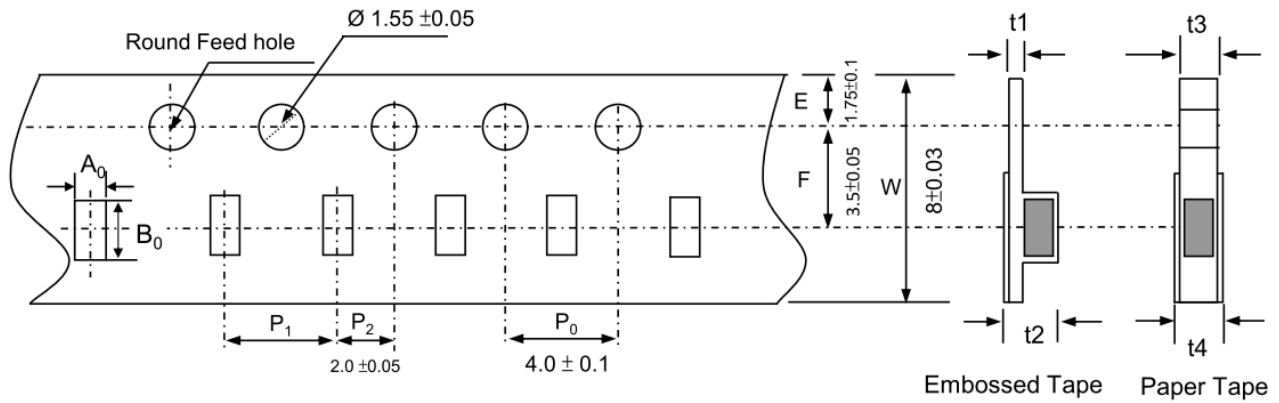
※ X : R Tolerance, Y : B Value Tolerance

Electrical Characteristics

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
	R 25 (Ω)	(± %)	(K)	(± %)	δ(mW/°C)	τ(sec.)	(mW)
JSNB204X406YBBXG	200,000	10,5,3,2,1	4060	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB204X410YBBXG	200,000	10,5,3,2,1	4100	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNB103X344YBEWVG	10,000	10,5,3,2,1	3435	5,3,2,1	Approx. 2.1	Approx. 3.1	210
JSNC502X344YBBXG	5,000	10,5,3,2,1	3435	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC682X344YBBXG	6,800	10,5,3,2,1	3435	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC103X344YBBXG	10,000	10,5,3,2,1	3435	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC103X361YBBXG	10,000	10,5,3,2,1	3610	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC103X394YBBXG	10,000	10,5,3,2,1	3940	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC103X397YBBXG	10,000	10,5,3,2,1	3970	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC103X398YBBXG	10,000	10,5,3,2,1	3980	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC103X399YBBXG	10,000	10,5,3,2,1	3980	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC154X405YBBXG	150,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC473X395YBBXG	47,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC473X398YBBXG	47,000	10,5,3,2,1	3980	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC473X400YBBXG	47,000	10,5,3,2,1	4000	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC473X405YBBXG	47,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC503X400YBBXG	50,000	10,5,3,2,1	4000	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC683X400YBBXG	68,000	10,5,3,2,1	4000	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC683X405YBBXG	68,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC683X410YBBXG	68,000	10,5,3,2,1	4100	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC104X395YBBXG	100,000	10,5,3,2,1	3950	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC104X398YBBXG	100,000	10,5,3,2,1	3980	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC104X400YBBXG	100,000	10,5,3,2,1	4000	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC104X405YBBXG	100,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC104X410YBBXG	100,000	10,5,3,2,1	4100	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC104X430YBBXG	100,000	10,5,3,2,1	4300	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC204X406YBBXG	200,000	10,5,3,2,1	4060	5,3,2,1	Approx. 2.4	Approx. 7.5	240
JSNC154X405YBEWVG	150,000	10,5,3,2,1	4050	5,3,2,1	Approx. 2.4	Approx. 7.5	240

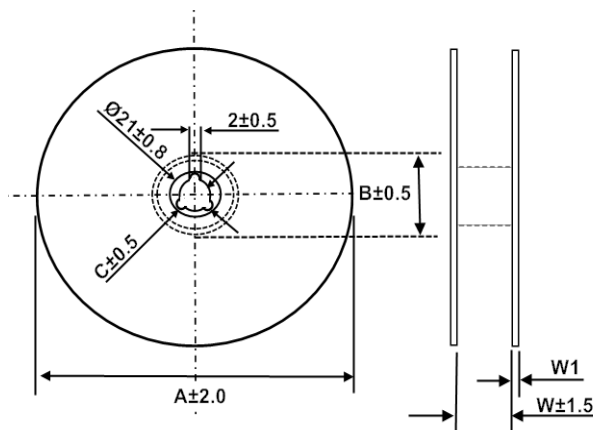
※ X : R Tolerance, Y : B Value Tolerance

Packing



Dimension of Paper Tape

Size	$A_0 \pm 0.1$ (mm)	$B_0 \pm 0.1$ (mm)	$P_1 \pm 0.1$ (mm)	t_1 / t_2 (mm)	Quantity / Reel(Pcs)
JSNZ (0201)	0.38	0.68	2	$t_2 \leq 0.5$	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