

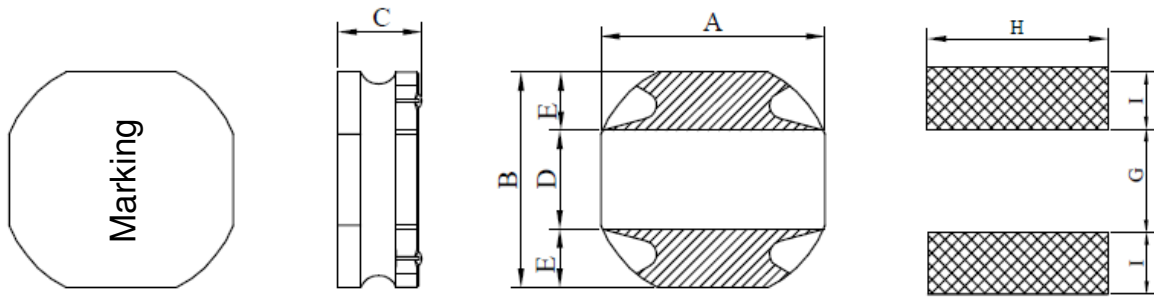
1. Part No. Expression

PNS50201R0YYF

(a) (b) (c) (d)(e)(f)

- | | |
|---------------------|--------------------|
| (a) Series Code | (d) Tolerance Code |
| (b) Dimension Code | (e) Special Code |
| (c) Inductance Code | (f) Packaging Code |

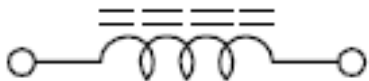
2. Configuration & Dimensions: (Unit:- mm)



Recommended Land Pattern

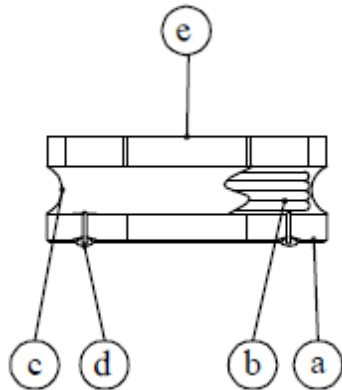
A	B	C	D	E	G	H	I
5.00±0.2	4.90±0.2	2.00 Max	2.20 Typ	1.35 Typ	2.20 Ref	5.50 Ref	1.50 Ref

3. Schematic



NOTE: Specifications subject to change without notice. Please check our website for latest information.

4. Material List



- a) Core
- b) Wire
- c) Adhesive
- d) Terminal
- e) Ink

5. General Specifications

- (a) Operating Temp. : -40°C to +125°C (Including self-temperature rise).
- (b) Storage Temp. : -40°C to +125°C.
- (c) Irms: Based on temperature rise (ΔT : 40°C Typ).
- (d) Isat: Based on inductance change ($\Delta L/L_0$: 30% Max).
- (e) Storage condition (component in its packaging)
 - i) Temperature: Less than 40°C
 - ii) Humidity: 60% RH

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6. Electrical Characteristics

Part Number	Inductance (uH)	Test Freq. (Hz)	DCR (mΩ) ±20%	Isat (A)	Irms (A)	Marking
PNS50201R0YYF	1.00±30%	0.1V/100K	21.0	4.00	3.60	1R0
PNS50201R5YYF	1.50±30%	0.1V/100K	26.0	3.40	3.20	1R5
PNS50202R2YYF	2.20±30%	0.1V/100K	35.0	2.90	2.90	2R2
PNS50203R3YYF	3.30±30%	0.1V/100K	48.0	2.40	2.40	3R3
PNS50204R7MYF	4.70±20%	0.1V/100K	75.0	2.00	2.00	4R7
PNS50206R8MYF	6.80±20%	0.1V/100K	100.0	1.60	1.65	6R8
PNS5020100MYF	10.0±20%	0.1V/100K	160.0	1.30	1.45	100
PNS5020150MYF	15.0±20%	0.1V/100K	250.0	1.10	1.20	150
PNS5020220MYF	22.0±20%	0.1V/100K	370.0	0.90	1.00	220

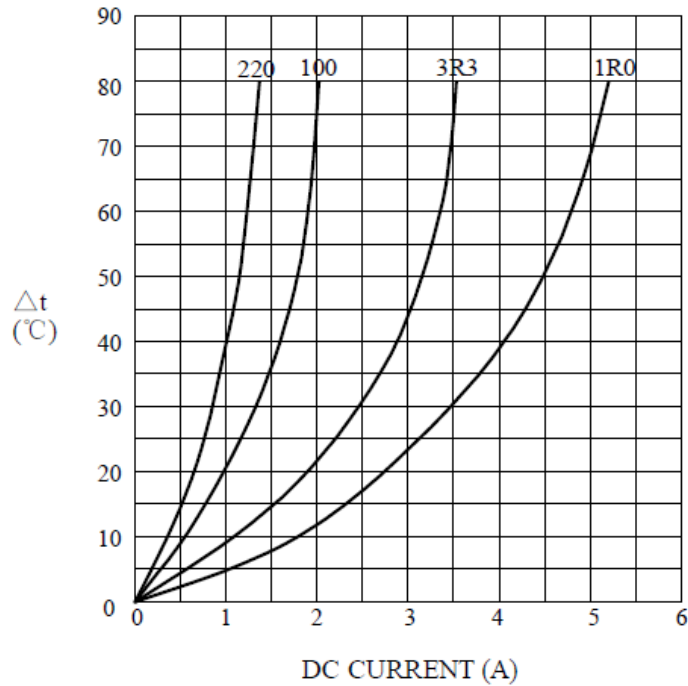
Tolerance: Y = ±30%; M = ±20%

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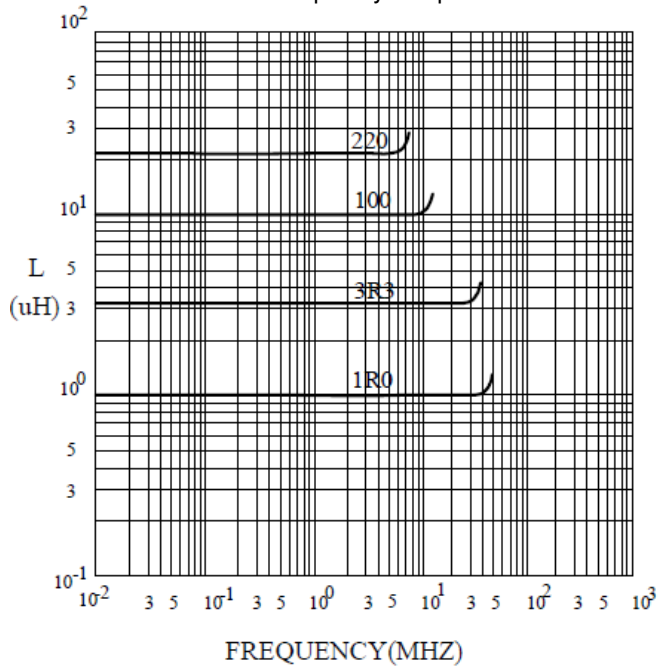


7. Characteristic Curves

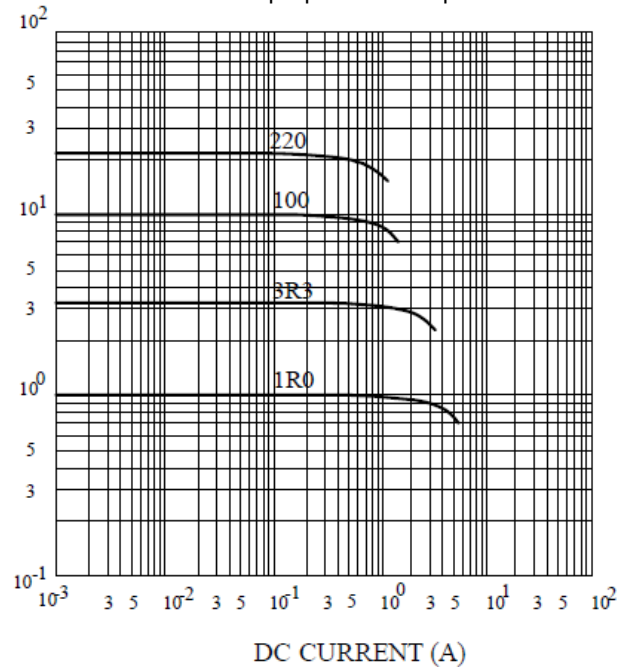
ΔT vs DC Superposition Response



L vs Frequency Response



L vs DC Superposition Response

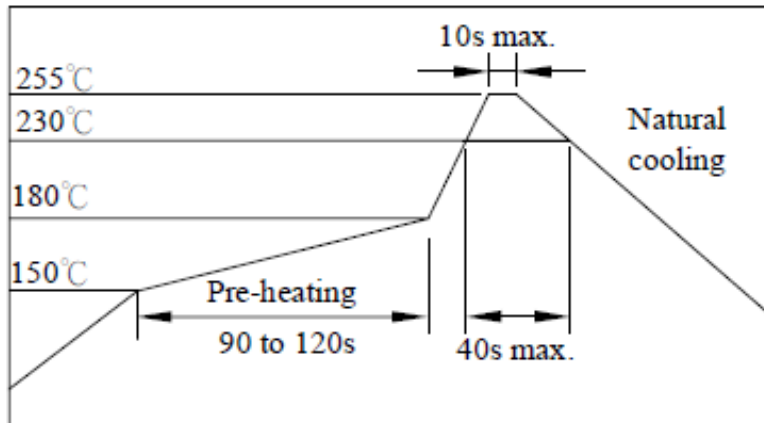


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8. Soldering and Mounting

Recommended Reflow Condition

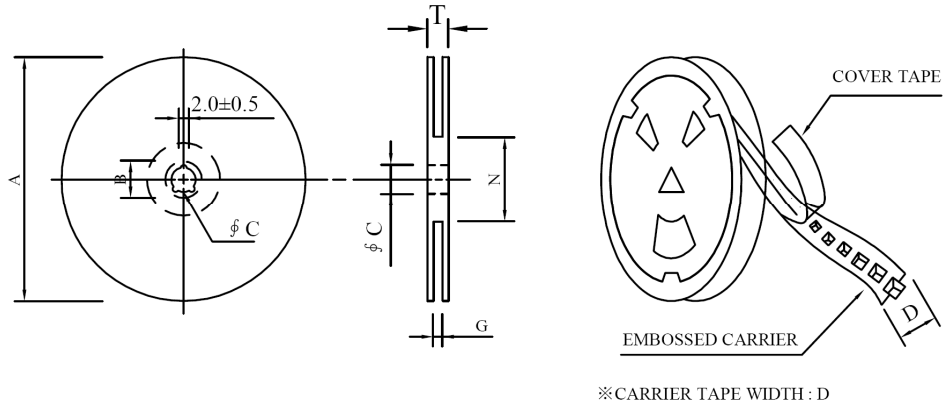


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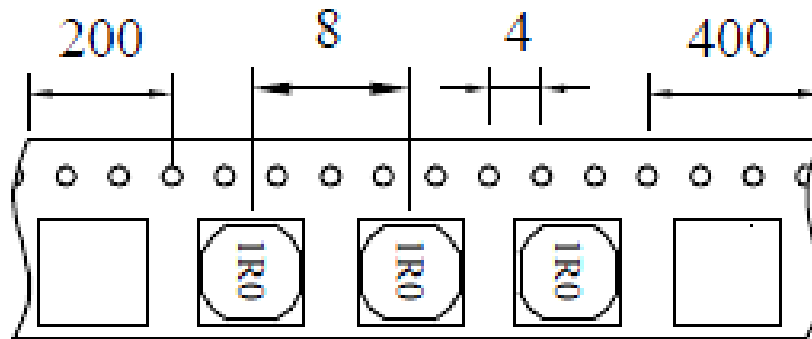
9. Packaging Information

9-1. Reel Dimension



Type	A (mm)	B (mm)	C (mm)	D (mm)	G (mm)	N (mm)	T (mm)
13-12	330	21.0±0.8	13.0±0.5	12.0	14.0 Max	50 Min	18.4

9-2. Tape Dimension

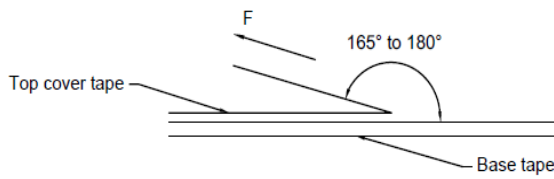


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9-3 Packaging Quantity

Chip Size	PNS5020
Chip/Reel	3000
Carton	48000

9-4 Tearing Off Force



The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions.

Room Temp. (°C)	Room Humidity (%)	Room atm (hPa)	Tearing Speed mm/min
5~35	45~85	860~1060	300

Application Notice:

1. Storage Conditions:

To maintain the solderability of terminal electrodes:

- a) Recommended products should be used within 12 months from the time of delivery.
- b) The packaging material should be kept where no chlorine or sulfur exists in the air.

2. Transportation:

- a) Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- b) Vacuum pick up is strongly recommended for individual components.
- c) Bulk handling should ensure that abrasion and mechanical shock are minimized.

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