





# 【SPECIFICATION FOR APPROVAL】

SAN TUO P/N	ANR5020 Series	DATE	2015/11/10	REV	B
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## Wire Wound SMD Power Inductors–ANR Series

Operating temperature range: -40°C~+125°C (Including self-heating)

### 1.PART NUMBERING SYSTEM

ANR	5020	—	XXX	—	X	—	S
<b>1</b>	<b>2</b>		<b>3</b>		<b>4</b>		<b>5</b>

1.SERIES NAME

2.DIMENSIONS

3.TYPE

4.INDUCTANCE

5.TOLERANCE CODE: J:±5% K:±10% L:±15% M:±20% P:±25% N:±30%

6.INTERNAL IDENTIFICATION

### 2.FEATURES:

- Magnetic-resin shielded coANRuction reduces buzz noise to ultra-low levels
- Metallization on ferrite core results in excellent shock resistance and damage-free durability
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI)
- 30% higher current rating than conventional inductors of equal size
- Takes up less PCB real estate and save more power

### 3.APPLICATIONS

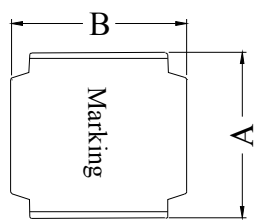
- LED Lighting
- Next-generation mobile devices with multifunction such as mobile TV and digital movie cameras
- Flat-screen TVs, blue-ray disc recorders, set top box
- Notebooks, desktop computers, servers, graphic cards cards
- Portable gaming devices, personal navigation systems, personal multimedia devices
- Automotive systems
- Telecomm base stations



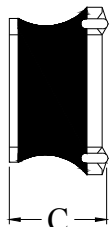
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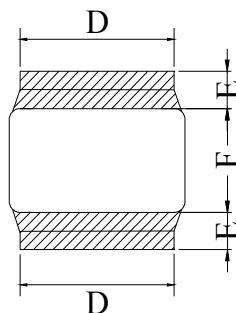
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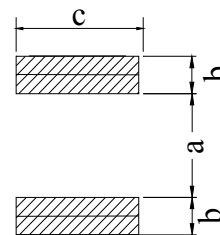
Top View



Front View



Bottom View



Recommended Land Pattern

## 2. Appearance size(unit : mm) Tolerance:

A	B	C	D	E	F	a	b	c		
5.0±0.2	5.0±0.2	2.1Max	4.0 typ	1.25 typ	2.5 typ	2.3Typ.	1.4Typ.	4.2Typ.		

## 3. Test instruments

L: TH2826A LCR METER (or equivalent)

Isat: CH2815 LCR METER+VR7220 DC SUPPLIER (or equivalent)

DCR: HK502BC MILLIOHMMETER (or equivalent)

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## 4. CHARACTERISTICS

P/N	Inductance 电感 @100KHz,1.0V	DC Resistance 直流电阻 (±30%)	Saturation Current 饱和电流	Heat Rating Current 温升电流	Marking 印字
Units	uH	Ω	A	A	
Symbol	L	DCR	Isat	Irms	
ANR5020-1R0N	1.0±30%	0.020	4.33	3.70	1R0
ANR5020-1R5N	1.5±30%	0.026	4.10	3.20	1R5
ANR5020-2R2N	2.2±30%	0.038	3.85	2.90	2R2
ANR5020-3R3N	3.3±20%	0.046	3.25	2.40	3R3
ANR5020-4R7M	4.7±20%	0.065	2.40	2.05	4R7
ANR5020-6R8M	6.8±20%	0.092	2.10	1.70	6R8
ANR5020-8R2M	8.2±20%	0.100	1.90	1.60	8R2
ANR5020-100M	10±20%	0.125	1.80	1.50	100
ANR5020-150M	15±20%	0.180	1.44	1.25	150
ANR5020-220M	22±20%	0.250	1.18	1.05	220
ANR5020-330M	33±20%	0.370	0.97	0.83	330
ANR5020-470M	47±20%	0.560	0.81	0.70	470

※1: All test data is referenced to 20° C ambient;  
 ※2: Rated current: Isat or Irms, whichever is smaller;  
 ※\*3: Isat: DC current at which the inductance drops approximate 30% from its value without current;  
 ※\*4: Irms: DC current that causes the temperature rise (ΔT =40° C) from 20° C ambient.

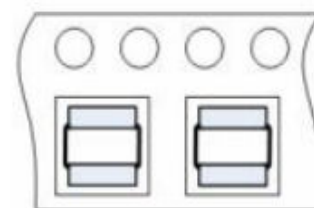
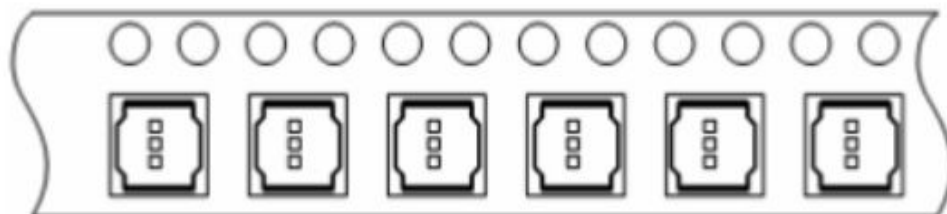
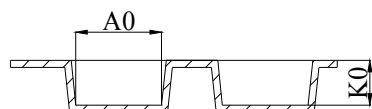
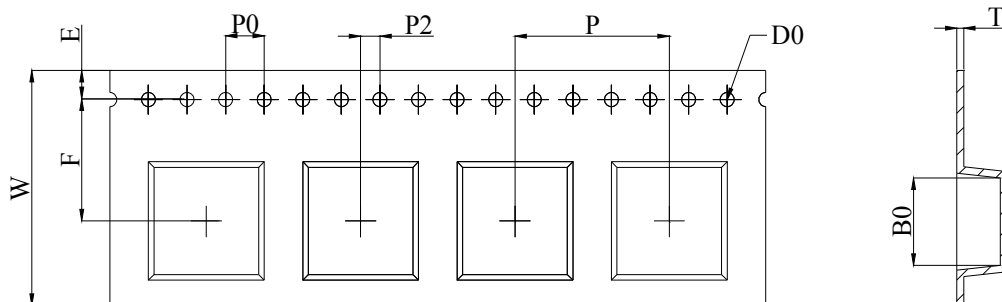


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## 1.DIMENSIONS FOR CARRIER TAPES:

ITEM	W	A0	B0	K0	K1	P	F	E	D0	D1	P0	P2	T
DIM	12.00	5.20	5.20	2.3	0.00	8.00	5.50	1.75	1.50	1.50	4.00	2.00	0.4
	+0.3	+0.1	+0.1	+0.15	+0.0	+0.1	+0.15	+0.1	+0.1	+0.1	+0.1	+0.1	+0.05
	-0.3	-0.1	-0.1	-0.15	-0.0	-0.1	-0.15	-0.1	-0.0	-0.0	-0.1	-0.1	-0.05



## 2.PACKING(mm)

载带宽度 (W)	间距 (P)	卷(PCS) 13inch	4卷/2袋 (PCS)	2袋/内箱 (PCS)	5内箱/外箱 (PCS)
12mm	8mm	3000	12000	12000	60000

备注:

- 1.包装袋规格: 375\*400mm (REF.) .
- 2.内箱规格: 340\*70\*340mm (REF.) .
- 3.外箱规格: 375\*360\*360mm (REF.) .