



【SPECIFICATION FOR APPROVAL】

SAN TUO P/N	ANR4020 Series	DATE	2015/11/10	REV	A
变更履历					
版本	变更项目	变更前内容	变更后内容	变更日期	
A	初版	—	—	2015.11.10	



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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	4020	—	XXX	—	X	—	S
1	2		3		4		5

- 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

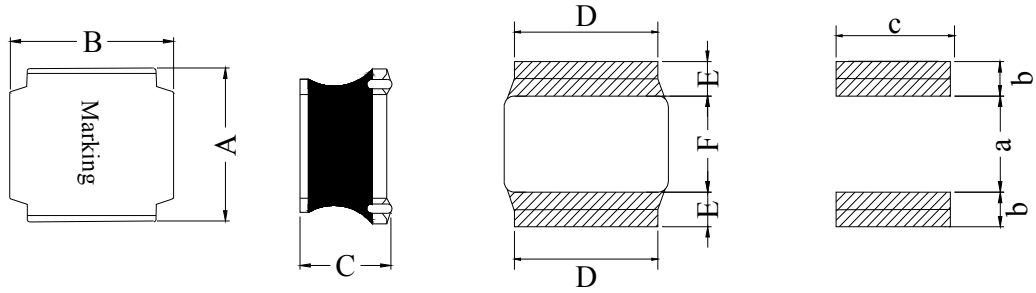
- LED Lighting
- Next-generation mobile devices with multifunction such as mobile TV and digital movie cameras
- Flat-screen TVs, blue-ray disc recorders, set top box
- Notebooks, desktop computers, servers, graphic cards cards
- Portable gaming devices, personal navigation systems, personal multimedia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



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1. Appearance shape (unit : mm)



Top View Front View Bottom View Recommended Land Pattern

2. Appearance size(unit : mm) Tolerance:

A	B	C	D	E	F	a	b	c		
4.0±0.2	4.0±0.2	2.0Max	3.3±0.2	1.10 typ	1.80 typ	1.9Typ.	1.1Typ.	3.7Typ.		

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,1V	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	
ANR4020-1R0N	1.0±30%	0.028	5.10	2.15	1R0
ANR4020-1R2N	1.2±30%	0.029	4.70	2.10	1R2
ANR4020-1R5N	1.5±30%	0.035	4.45	1.98	1R5
ANR4020-2R2M	2.2±20%	0.040	3.40	1.85	2R2
ANR4020-3R3M	3.3±20%	0.070	3.20	1.40	3R3
ANR4020-4R7M	4.7±20%	0.080	2.35	1.34	4R7
ANR4020-5R6M	5.6±20%	0.950	2.20	1.22	5R6
ANR4020-6R8M	6.8±20%	0.125	2.00	1.04	6R8
ANR4020-8R2M	8.2±20%	0.150	1.75	1.00	8R2
ANR4020-100M	10±20%	0.165	1.60	0.90	100
ANR4020-120M	12±20%	0.175	1.50	0.88	120
ANR4020-150M	15±20%	0.230	1.35	0.77	150
ANR4020-220M	22±20%	0.350	1.05	0.62	220
ANR4020-330M	33±20%	0.500	0.85	0.49	330
ANR4020-470M	47±20%	0.710	0.74	0.44	470
ANR4020-680M	68±20%	1.250	0.60	0.35	680

※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.

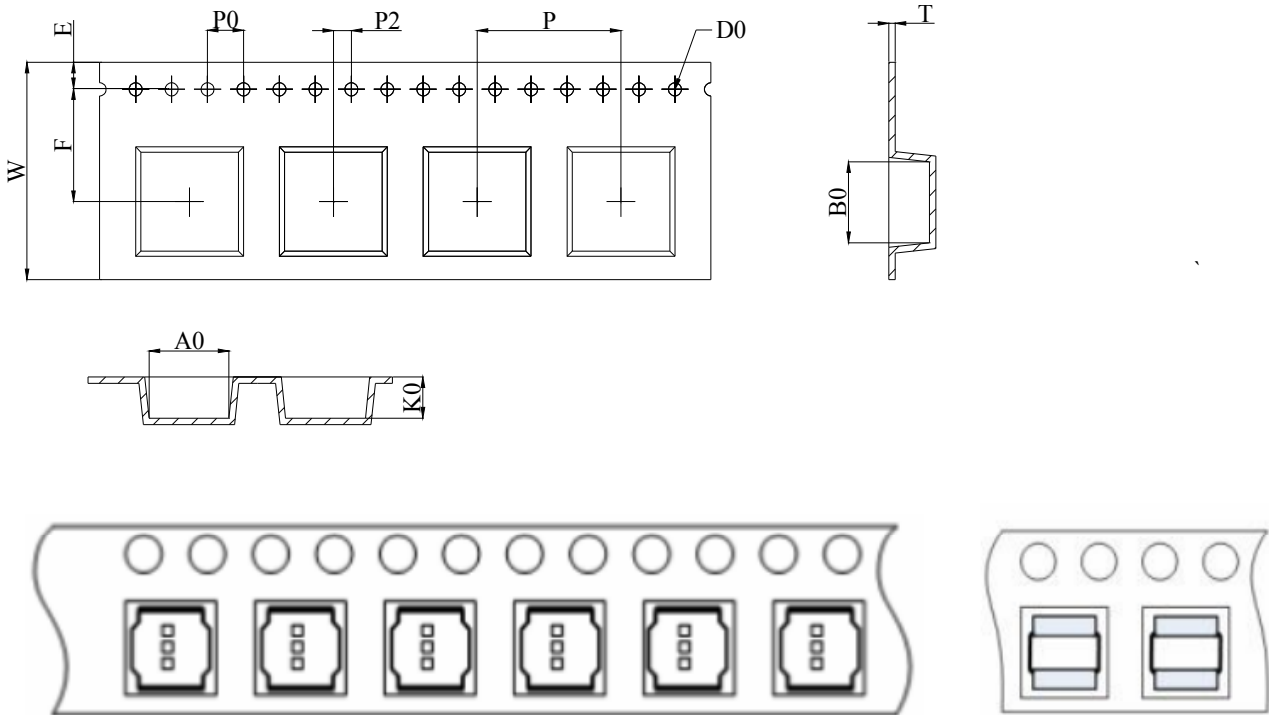


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1. DIMENSIONS FOR CARRIER TAPES:

ITEM	W	A0	B0	K0	K1	P	F	E	D0	D1	P0	P2	T
DIM	12.00	4.30	4.30	2.25	0.00	8.00	5.50	1.75	1.50	1.50	4.00	2.00	0.3
	+0.3	+0.1	+0.1	+0.1	+0.0	+0.1	+0.1	+0.1	+0.1	+0.1	+0.1	+0.1	+0.05
	-0.3	-0.1	-0.1	-0.1	-0.0	-0.1	-0.1	-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.) .