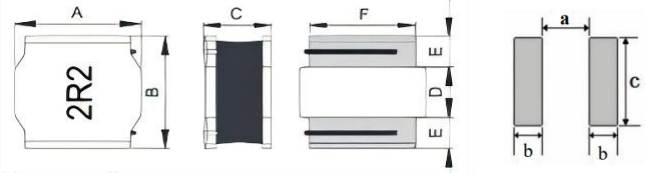


产品图示 Product illustration	尺寸 Dimensions
	

(Unit:mm)

Series	A	B	C	D	E	F	a	b	c
PNR3015	3.0±0.2	3.0±0.2	1.5 Max	1.5±0.2	0.75±0.2	2.5±0.2	1.5	0.8	2.7

环境数据	Environmental Data
■ 工作温度范围:-40℃ 至+125℃(环境温度加自温升)	■ Operating temperature range: -40℃ to +125℃(ambient plus self-temperature rise)
■ 焊接回流温度:符合 J-STD-020D 标准	■ Solder reflow temperature: J-STD-020D compliant

特征	Description
■ 磁性胶水涂敷结构极大减少了蜂鸣声	■ Magnetic-resin shielded Construction reduces buzz noise to ultra-low levels
■ 在磁芯上金属化电极, 抗跌落冲击强, 经久耐用	■ Metallization on ferrite core results in excellent shock resistance and Features damage-free durability
■ 闭合磁路结构设计, 漏磁少, 抗 EMI 能力强	■ Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI)
■ 电流特性较同等尺寸传统电感高出 30%以上	■ 30% higher current rating than conventional inductors of equal sizeux
■ 省空间, 更省电	■ Takes up less PCB real estate and save more power

应用领域	Applications
■ 智能手机、智能电视、机顶盒、笔记本电脑	■ Smart phone, smart TV, set top box, notebook
■ 车载导航影音、通讯设备	■ Car navigation systems, telecomm base stations
■ 虚拟现实、增强现实	■ VR,AR
■ LED 照明	■ LED lighting
■ 固态硬盘、蓝牙、WIFI 模块	■ SSD, Bluetooth, Wi-Fi module
■ 物联网模块、蓝牙耳机、智能音箱	■ NB-IOT, Bluetooth headset, Smartspeakers

■ 产品命名规则 Product Naming Rules

系列名称 Series	尺寸 Dimensions	电感值 Inductance Value	电感公差 Inductance Tolerance
PNR	3015	1R0	K=±10% M=±20% N=±30%

■ 关键电气参数规格表 Key Electrical Parameter Specification Table

型号 Part Number	电感 Inductance	直流电阻 DC Resistance		自谐振频率 Self-resonant Frequency	饱和电流 Saturation Current		温升电流 Heating Rating Current	
	L(μH)	DCR (Ω)		S.R.F(MHz)	Isat (A)		Irms (A)	
	100kHz,1V	Max.	Typ.	Min.	Max.	Typ	Max.	Typ
PNR3015-R50-N	0.5±30%	0.039	0.03	162	3.9	4.2	2.6	2.8
PNR3015-1R0-N	1.0±30%	0.039	0.03	150	2.32	2.8	2.35	2.5
PNR3015-1R2-N	1.2±30%	0.052	0.04	110	2.21	3.1	1.95	2.3
PNR3015-1R5-N	1.5±30%	0.065	0.05	100	2	2.7	1.7	2.2
PNR3015-1R8-N	1.8±30%	0.065	0.05	92	1.75	2.2	1.7	2.2
PNR3015-2R2-N	2.2±30%	0.078	0.06	86	1.6	2	1.6	2
PNR3015-2R7-N	2.7±30%	0.098	0.075	64	1.52	1.9	1.43	1.9
PNR3015-3R3-M	3.3±20%	0.104	0.08	68	1.32	1.81	1.36	1.6
PNR3015-3R6-M	3.6±20%	0.137	0.105	59	1.28	1.6	1.2	1.5
PNR3015-3R9-M	3.9±20%	0.137	0.105	47	1.2	1.4	1.2	1.5
PNR3015-4R3-M	4.3±20%	0.15	0.115	53	1.2	1.4	1.14	1.3
PNR3015-4R7-M	4.7±20%	0.163	0.125	46	1.1	1.4	1.09	1.3
PNR3015-5R1-M	5.1±20%	0.173	0.133	49	1	1.2	1.05	1.2
PNR3015-6R2-M	6.2±20%	0.254	0.195	46	1	1.2	0.86	1
PNR3015-6R8-M	6.8±20%	0.26	0.2	39	0.85	1.1	0.85	1.1
PNR3015-100-M	10±20%	0.325	0.25	41	0.72	0.92	0.77	0.9
PNR3015-120-M	12±20%	0.416	0.32	32	0.7	0.9	0.68	0.89
PNR3015-150-M	15±20%	0.455	0.35	30	0.66	0.88	0.65	0.72
PNR3015-180-M	18±20%	0.559	0.43	23	0.56	0.72	0.59	0.72
PNR3015-220-M	22±20%	0.598	0.46	23	0.52	0.68	0.57	0.69
PNR3015-270-M	27±20%	0.949	0.73	22	0.48	0.56	0.45	0.56
PNR3015-330-M	33±20%	1.066	0.82	20	0.44	0.53	0.43	0.51
PNR3015-390-M	39±20%	1.294	0.995	14	0.41	0.55	0.39	0.44
PNR3015-430-M	43±20%	1.378	1.06	16	0.37	0.43	0.37	0.48
PNR3015-470-M	47±20%	1.625	1.25	14	0.35	0.43	0.35	0.44
PNR3015-560-M	56±20%	1.664	1.28	13	0.33	0.42	0.34	0.41
PNR3015-620-M	62±20%	2.093	1.61	13	0.3	0.4	0.3	0.41
PNR3015-680-M	68±20%	3.51	2.7	11	0.28	0.37	0.23	0.31

绕线贴片功率电感 Wire Wound SMD Power Inductors

PNR3015-101-M	100±20%	4.043	3.11	6.3	0.23	0.25	0.21	0.25
PNR3015-151-M	150±20%	4.94	3.8	4.7	0.18	0.22	0.19	0.23

备注(Notes):

(1) 所有测试数据均以 25°C 环境温度为基准。

All test data is referenced to 25°C ambient.

(2) 当向线圈施加升温电流 (Idc) 时, 会导致约 40°C 的温升(ΔT)。

When applying the heat rating current DC (Idc) to coil, it will cause an approximate ΔT of 40°C .

(3) 当向线圈施加饱和电流直流 (Isat) 时, 初始电感值将下降约 30% (典型值)

When applying the saturation current DC (Isat) to coil, it will cause the initial inductance value to drop 30% Typical.

(4) 工作温度范围: -40°C 至 +125°C。

Operating Temperature Range -40°C to +125°C .

(5) 额定电流: 以 Isat (最大值) 或 Irms (典型值) 中较小者为准。

Rated current: Isat (Max.) or Irms (Typ.), whichever is smaller.

(6) 饱和电流: 典型值, 指使电感值较无电流状态下下降约 30% 的直流电流。

Saturation Current: Typ. Value, DC current at which the inductance drops approximately 30% from its value without current;

(7) 温升电流: 指在 20°C 环境温度下导致约 40°C 温升(ΔT)时对应的直流电流。

Heat Rating Current: DC current that causes an approximate ΔT of 40°C from 20°C ambient.

■ 储存条件/注意的事项 Storage conditions/Matters need attention

a、保存条件: 温度 5°C~40°C, 相对湿度低于 60%

Storage conditions: 5°C~40°C and less than 60% RH;

b、产品在 12 个月内使用(注意: 产品一经拆开包装, 须尽快使用)

Products should be used within 12 months. (Note that the product should be used as soon as possible once it is folded);

c、包装材料应保存在空气中不存在氯或硫的地方;

The packaging material should be kept where no chlorine or sulfur exists in the air;

d、不要用手指触摸电极(焊接端子), 因为这可能导致焊接能力的下降;

Do not touch the electrodes (soldering terminals) with fingers as this may lead to deterioration of solder ability;

e、个别零件强烈建议使用镊子或真空取料机, 散装搬运应确保尽量减少磨损和机械冲击;

The use of tweezers or vacuum pick-ups is strongly recommended for individual components. Bulk handling should ensure that abrasion and mechanical shock are minimized;