

绕线贴片功率电感—RWPA3015S 系列

Wire Wound SMD Power Inductors—RWPA3015S Series

Operating temperature range: -25°C to +120°C (Including self-heating)



特征

- 磁性胶水涂敷结构极大减少了蜂鸣声
- 直接在磁芯上金属化电极，抗跌落冲击强，经久耐用
- 闭合磁路结构设计，漏磁少，抗 EMI 能力强
- 同等尺寸，额定电流特性较传统电感高出 30% 以上
- 省空间，更省电

FEATURES

- Magnetic-resin shielded construction 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

用途

- LED 照明
- 多功能手机
- 平板电视、蓝光 DVD、机顶盒
- 笔记本电脑、台式电脑、服务器、显卡
- 便携式游戏机、个人导航系统、多媒体
- 汽车产品
- 通信设备

APPLICATIONS

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

产品型号

PRODUCT IDENTIFICATION

RWPA

3015

S



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①	分类 Type
RWPA	Wire Wound SMD Power Inductor, Newly Magnetic-resin Shielded Structure

④	公称感量 Nominal Inductance
Example	Nominal Value
1R0	1μH
100	10μH

②	外形尺寸(L×H) (mm) External Dimensions(L×H) [mm]
3015	3.0×1.5

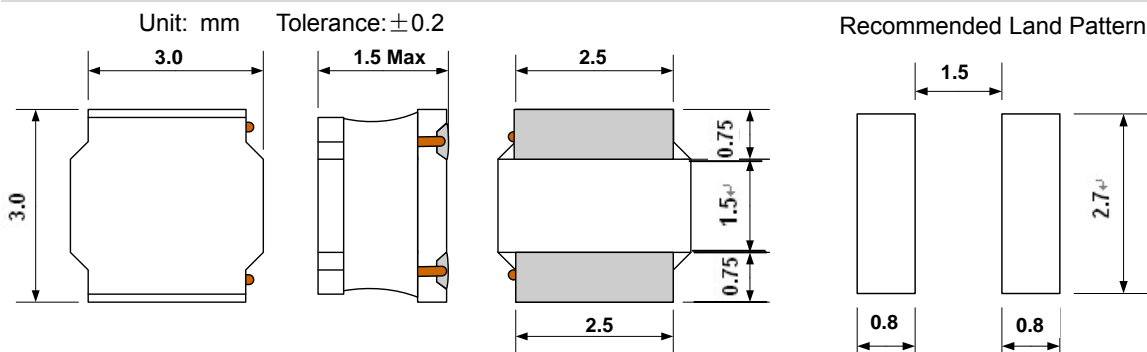
⑤	感量精度 Inductance Tolerance
N	±30%
M	±20%

③	特性类型 Feature type
S	标准型 Standard

⑥	包装 Packing
T	编带 Tape Carrier Package

外观尺寸

SHAPE AND DIMENSIONS



RWPA3015S Series

Part Number 型号	Inductance 电感量 @100KHz, 1V	DC Resistance 直流电阻 (±30%)	Min. Self-resonant Frequency 自谐频率	Saturation Current 饱和电流* ³	Heat Rating Current 温升电流* ⁴
Units 单位	μH	Ω	MHz	A	A
Symbol 符号	L	DCR	S.R.F	Isat	Irms
RWPA3015S1R0NT	1.0±30%	0.037	150	2.30	2.10
RWPA3015S1R2NT	1.2±30%	0.040	110	2.21	1.95
RWPA3015S1R5NT	1.5±30%	0.050	100	2.30	1.70
RWPA3015S1R8NT	1.8±30%	0.050	92	1.75	1.70
RWPA3015S2R2NT	2.2±30%	0.060	86	1.60	1.60
RWPA3015S2R7NT	2.7±30%	0.075	64	1.52	1.43
RWPA3015S3R3MT	3.3±20%	0.080	68	1.32	1.36
RWPA3015S3R6MT	3.6±20%	0.105	59	1.28	1.20
RWPA3015S4R3MT	4.3±20%	0.115	53	1.20	1.14
RWPA3015S4R7MT	4.7±20%	0.125	46	1.10	1.09
RWPA3015S5R1MT	5.1±20%	0.125	49	1.08	1.09
RWPA3015S6R2MT	6.2±20%	0.195	46	1.00	0.86
RWPA3015S6R8MT	6.8±20%	0.200	39	0.85	0.85
RWPA3015S100MT	10±20%	0.250	41	0.72	0.77
RWPA3015S120MT	10±20%	0.320	32	0.70	0.68
RWPA3015S150MT	15±20%	0.350	30	0.66	0.65
RWPA3015S180MT	18±20%	0.430	23	0.56	0.59
RWPA3015S220MT	22±20%	0.460	23	0.52	0.57
RWPA3015S330MT	33±20%	0.820	20	0.44	0.43
RWPA3015S390MT	39±20%	0.995	14	0.38	0.39
RWPA3015S430MT	43±20%	1.060	16	0.37	0.37
RWPA3015S470MT	47±20%	1.250	14	0.35	0.35
RWPA3015S560MT	56±20%	1.280	13	0.33	0.34
RWPA3015S620MT	62±20%	1.430	13	0.33	0.32
RWPA3015S680MT	68±20%	2.700	11	0.28	0.23

※1. All test data is referenced to 20°C ambient;

※2. Rated current: Isat or Irms, whichever is smaller;

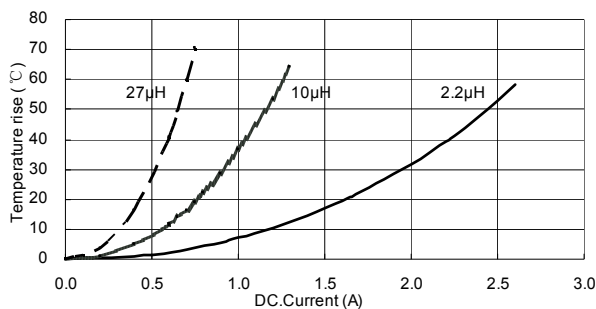
※*3. Isat: DC current at which the inductance drops approximate 30% from its value without current;

※*4. Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 20°C ambient.

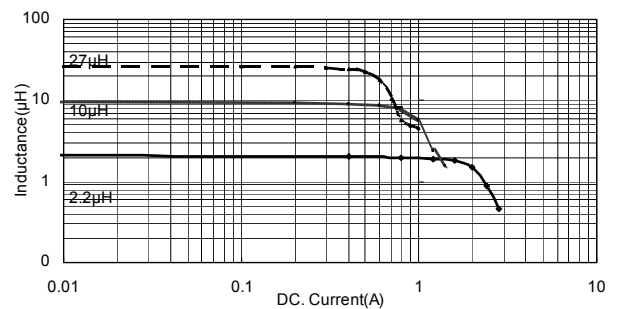
电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



Weight: 48.4mg

Tape and reel: 2000/7" reel, 8 mm tape width