

# 绕线贴片功率电感—RWPA6028S 系列

## Wire Wound SMD Power Inductors—RWPA6028S 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**

**6028**

**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]
6028	6.0×2.8

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

③	特性类型 Feature type
S	标准型 Standard

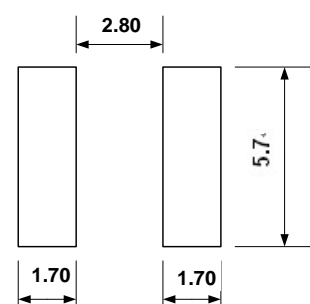
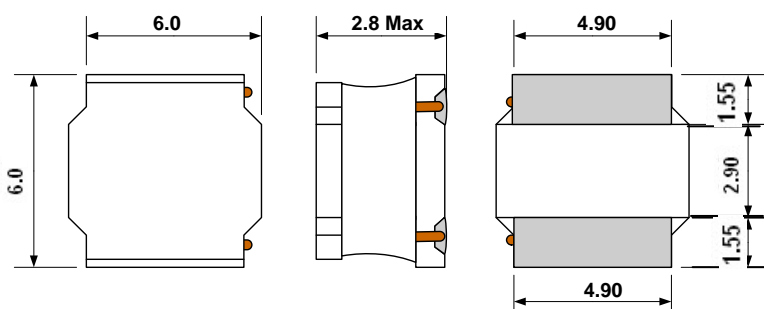
⑥	包装 Packing
T	编带 Tape Carrier Package

### 外观尺寸

### SHAPE AND DIMENSIONS

Unit: mm Tolerance: ±0.3

Recommended Land Pattern



## RWPA6028S 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* <sup>3</sup>	Heat Rating Current 温升电流* <sup>4</sup>
Units 单位	μH	Ω	MHz	A	A
Symbol 符号	L	DCR	S.R.F	Isat	Irms
RWPA6028S1R5NT	1.5±30%	0.013	65	6.00	4.58
RWPA6028S2R2NT	2.2±30%	0.015	56	5.10	4.09
RWPA6028S2R7NT	2.7±30%	0.020	48	3.80	3.75
RWPA6028S3R3NT	3.3±30%	0.025	41	3.63	3.48
RWPA6028S4R7NT	4.7±30%	0.030	35	3.00	3.08
RWPA6028S5R1NT	5.1±30%	0.035	33	3.55	2.89
RWPA6028S6R2MT	6.2±20%	0.040	30	3.05	2.58
RWPA6028S6R8MT	6.8±20%	0.047	27	2.85	2.40
RWPA6028S8R2MT	8.2±20%	0.055	24	2.60	2.25
RWPA6028S9R1MT	9.1±20%	0.060	24	2.55	2.15
RWPA6028S100MT	10±20%	0.072	23	2.04	1.95
RWPA6028S120MT	12±20%	0.080	18	1.80	1.85
RWPA6028S150MT	15±20%	0.125	18	1.75	1.45
RWPA6028S180MT	18±20%	0.120	15	1.52	1.45
RWPA6028S220MT	22±20%	0.140	14	1.60	1.40
RWPA6028S270MT	27±20%	0.155	13	1.50	1.32
RWPA6028S330MT	33±20%	0.185	12	1.35	1.22
RWPA6028S360MT	36±20%	0.215	11	1.25	1.13
RWPA6028S390MT	39±20%	0.225	11	1.25	1.10
RWPA6028S430MT	43±20%	0.235	11	1.20	1.07
RWPA6028S470MT	47±20%	0.245	9.5	1.15	1.06
RWPA6028S510MT	51±20%	0.265	9.5	1.05	1.01
RWPA6028S620MT	62±20%	0.345	7.7	0.95	0.89
RWPA6028S680MT	68±20%	0.360	7.7	0.95	0.86
RWPA6028S750MT	75±20%	0.410	7.7	0.90	0.81
RWPA6028S820MT	82±20%	0.445	7.7	0.90	0.78
RWPA6028S910MT	91±20%	0.505	7.7	0.80	0.73
RWPA6028S101MT	100±20%	0.545	7.1	0.75	0.70

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

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

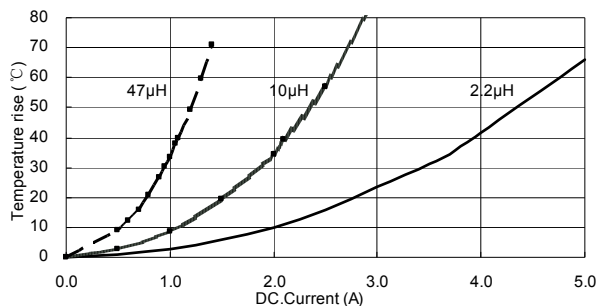
※\*3. Isat: DC current at which the inductance drops approximate 30% from its value without current;

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

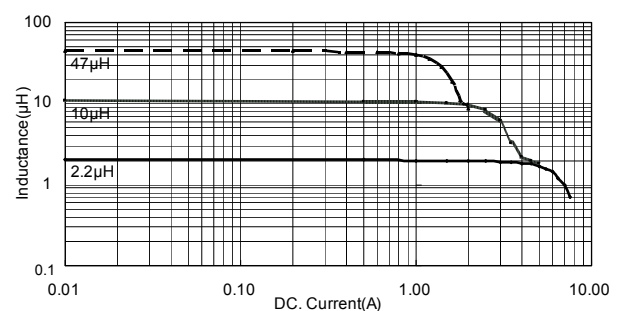
## 电气特性

## TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



Weight: 365.7mg

Tape and reel: 2000/13" reel, 16mm tape width