

绕线贴片功率电感—RWPA6020S 系列

Wire Wound SMD Power Inductors—RWPA6020S 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

6020

S

□□□

□

I

①

②

③

④

⑤

⑥

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]
6020	6.0×2.0

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

③	特性类型 Feature type
S	标准型 Standard

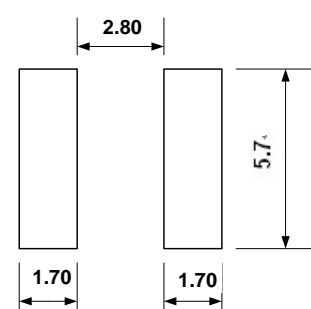
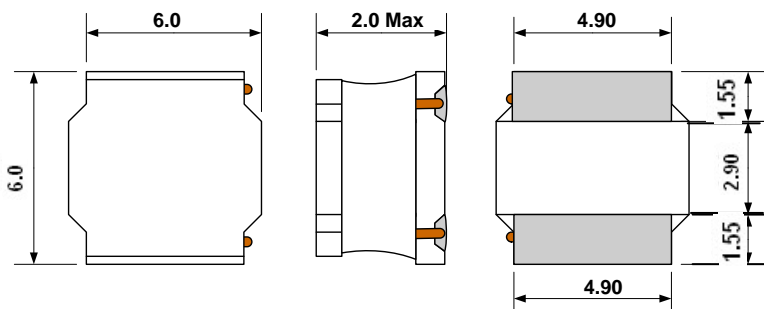
⑥	包装 Packing
T	编带 Tape Carrier Package

外观尺寸

SHAPE AND DIMENSIONS

Unit: mm Tolerance: ±0.3

Recommended Land Pattern



RWPA6020S 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
RWPA6020SR50NT	0.50±30%	0.013	130	4.90	4.05
RWPA6020SR68NT	0.68±30%	0.017	120	7.50	3.80
RWPA6020SR82NT	0.82±30%	0.017	110	6.60	3.80
RWPA6020S1R0NT	1.0±30%	0.020	94	4.15	3.25
RWPA6020S1R2NT	1.2±30%	0.022	88	5.90	3.20
RWPA6020S1R5NT	1.5±30%	0.022	79	4.25	3.20
RWPA6020S1R8NT	1.8±30%	0.028	68	4.85	2.75
RWPA6020S2R0NT	2.0±30%	0.035	64	4.30	2.45
RWPA6020S2R2NT	2.2±30%	0.028	61	3.75	2.75
RWPA6020S2R7NT	2.7±30%	0.035	56	3.90	2.60
RWPA6020S3R3NT	3.3±30%	0.035	51	3.15	2.60
RWPA6020S3R9NT	3.9±30%	0.049	46	3.25	2.10
RWPA6020S4R3NT	4.3±30%	0.049	44	2.70	2.10
RWPA6020S4R7NT	4.7±30%	0.058	41	3.00	2.00
RWPA6020S5R6NT	5.6±30%	0.058	36	2.40	1.90
RWPA6020S6R2NT	6.2±30%	0.079	35	2.30	1.80
RWPA6020S6R8NT	6.8±30%	0.079	31	2.20	1.80
RWPA6020S8R2NT	8.2±20%	0.105	28	2.10	1.40
RWPA6020S100MT	10±20%	0.105	27	1.75	1.40
RWPA6020S120MT	12±20%	0.120	23	1.70	1.35
RWPA6020S150MT	15±20%	0.145	21	1.50	1.20
RWPA6020S180MT	18±20%	0.175	19	1.23	1.10
RWPA6020S220MT	22±20%	0.204	16	1.25	1.00

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

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

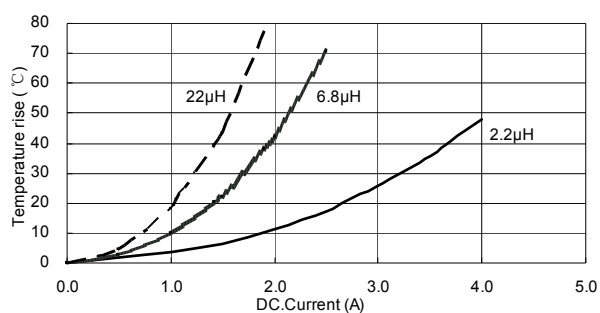
※*3. Isat: DC current at which the inductance drops approximate 30% from its value without current;

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

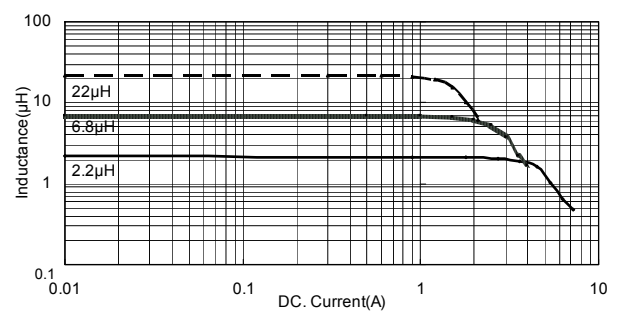
电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



Weight: 269.9mg

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