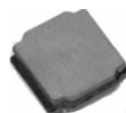


绕线贴片功率电感—ALWPG3015- 系列



Wire Wound SMD Power Inductors—ALWPG3015- 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
- Telecomm base stations

产品型号

PRODUCT IDENTIFICATION

ALWPG

3015

—

□□□

□

T

①

②

③

④

⑤

⑥

①	分类 Type
ALWPG	Wire Wound SMD Power Inductor

②	外形尺寸(L×H) (mm) External Dimensions(L×H) [mm]
3015	3.0X1.5

③	特性类型 Feature type
—	标准型 Standard

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

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

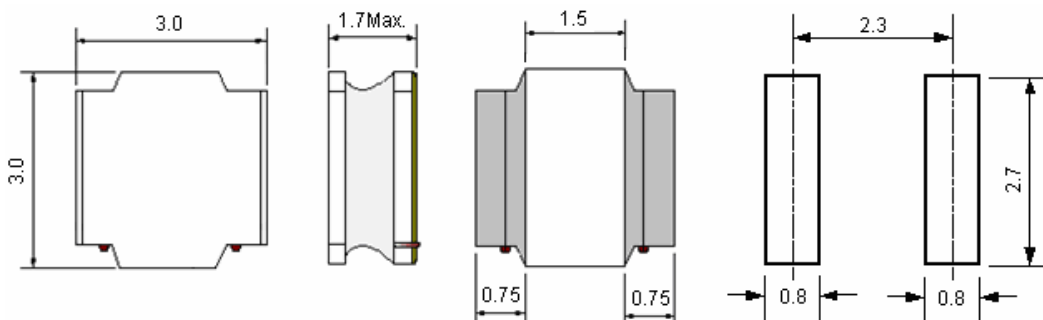
⑥	包装 Packing
T	编带 Tape Carrier Package

外观尺寸

SHAPE AND DIMENSIONS

Unit: mm Tolerance: ±0.3

Recommended Land Pattern



规格特性

SPECIFICATIONS

ALWPG3015- 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	Max. Saturation Current 直流重叠电流*3	Max. Heat Rating Current 温升许容电流*4
Units 单位	μH	Ω	MHz	A	A
Symbol 符号	L	DCR	SRF	Isat	Irms
ALWPG3015-1R0NT	1.0±30%	0.030	150	2.30	2.35
*3015-1R5NT	1.5±30%	0.050	100	2.30	1.70
*3015-1R8NT	1.8±30%	0.050	92	1.75	1.70
*3015-2R2MT	2.2±20%	0.060	86	1.60	1.60
*3015-2R7NT	2.7±30%	0.075	64	1.52	1.43
*3015-3R3NT	3.3±30%	0.080	68	1.32	1.36
*3015-3R6NT	3.6±30%	0.105	59	1.28	1.20
*3015-4R3MT	4.3±20%	0.115	53	1.20	1.14
*3015-4R7MT	4.7±20%	0.125	46	1.10	1.09
*3015-5R1MT	5.1±20%	0.125	49	1.08	1.09
*3015-6R2MT	6.2±20%	0.150	46	1.00	0.98
*3015-6R8MT	6.8±20%	0.200	39	0.85	0.85
*3015-100MT	10±20%	0.250	41	0.72	0.77
*3015-120MT	12±20%	0.320	32	0.70	0.68
*3015-150MT	15±20%	0.350	30	0.66	0.65
*3015-180MT	18±20%	0.430	23	0.56	0.59
*3015-220MT	22±20%	0.460	23	0.52	0.57
*3015-270MT	27±20%	0.730	22	0.48	0.45
*3015-330MT	33±20%	0.820	20	0.44	0.43
*3015-390MT	39±20%	0.995	14	0.41	0.39
*3015-430MT	43±20%	1.06	16	0.37	0.37
*3015-470MT	47±20%	1.25	14	0.35	0.35
*3015-560MT	56±20%	1.28	13	0.33	0.34
*3015-620MT	62±20%	1.43	13	0.33	0.32

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

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

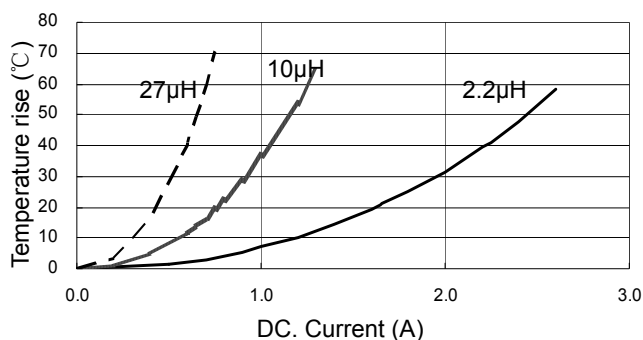
※*3. Isat: DC current at which the inductance drops approximate 30% from its value without current;

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

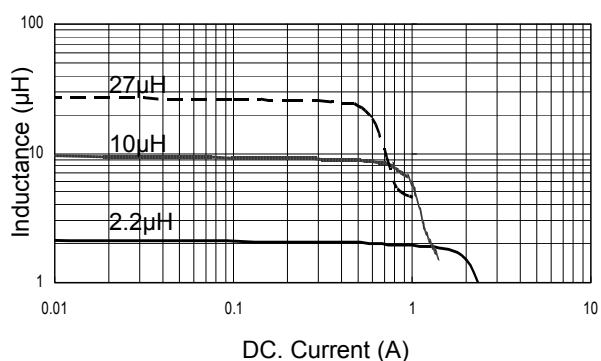
电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



Weight: 48mg

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

ALEVEL

ALEVEL International(H.K.)limited

Tel: 0755-27794456 Fax: 0755-29760379 Web: <http://www.alevel-asia.com> E-mail: Jack.li@alevel-asia.com