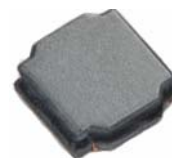


绕线贴片功率电感— ALWPK 6020- 系列

Wire Wound SMD Power Inductors—ALWPK 6020- Series

Operating temperature range: -25℃ to +120℃ (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
- 新一代多功能手机(手机电视、数码相机等)
- 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

ALWPK

6020

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①	分类 Type
ALWPK	Wire wound SMD power inductor

④	公称感量 Nominal Inductance
Example	Nominal Value
1R0	1.0μH
100	10μH

②	外形尺寸(L×H) (mm) External Dimensions(L×H) [mm]
6020	6.0X2.0

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

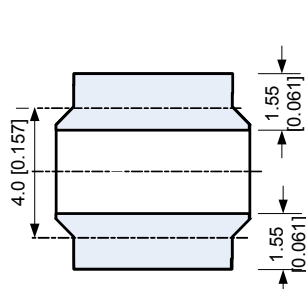
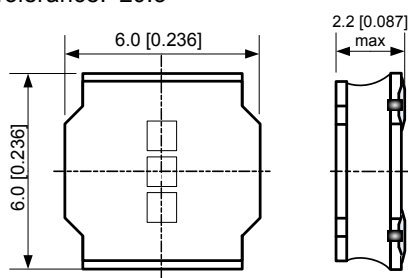
③	特性类型 Feature type
—	标准型 Standard

⑥	包装 Packing
T	编带 Tape Carrier Package

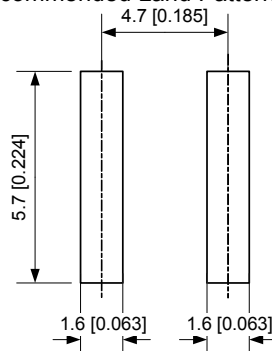
外观尺寸

SHAPE AND DIMENSIONS

Unit: mm [inch]
Tolerance: ±0.3



Recommended Land Pattern



Weight: 284mg

Tape and reel: 2500/13" reel, 16 mm tape width

ALEVEL

ALEVEL International(H.K.)limited

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规格特性

SPECIFICATIONS

ALWPK6020- Series

Part Number 型号	Inductance 电感量 @100KHz,1V	DC Resistance 直流电阻 ($\pm 30\%$)	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
ALWPK6020-1R0N	1.0	0.012	100	5.50	4.95
ALWPK6020-1R5N	1.5	0.016	70	4.50	4.35
ALWPK6020-2R2N	2.2	0.022	55	3.75	3.70
ALWPK6020-3R9N	3.9	0.037	37	2.85	2.85
ALWPK6020-5R6N	5.6	0.052	32	2.45	2.40
ALWPK6020-6R8N	6.8	0.059	27	2.20	2.25
ALWPK6020-8R2N	8.2	0.077	24	2.00	2.00
ALWPK6020-100M	10	0.086	24	1.75	1.85
ALWPK6020-120M	12	0.113	21	1.60	1.60
ALWPK6020-150M	15	0.134	20	1.50	1.50
ALWPK6020-180M	18	0.156	16	1.35	1.40
ALWPK6020-270M	27	0.222	12	1.05	1.15
ALWPK6020-330M	33	0.251	11	1.00	1.10
ALWPK6020-430M	43	0.328	9.2	0.85	1.00
ALWPK6020-470M	47	0.335	9.2	0.80	0.95
ALWPK6020-560M	56	0.423	7.8	0.75	0.85
ALWPK6020-620M	62	0.461	7.8	0.70	0.80
ALWPK6020-750M	75	0.557	7.8	0.65	0.75
ALWPK6020-820M	82	0.603	6.4	0.60	0.70
ALWPK6020-101M	100	0.744	6.4	0.55	0.65

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

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

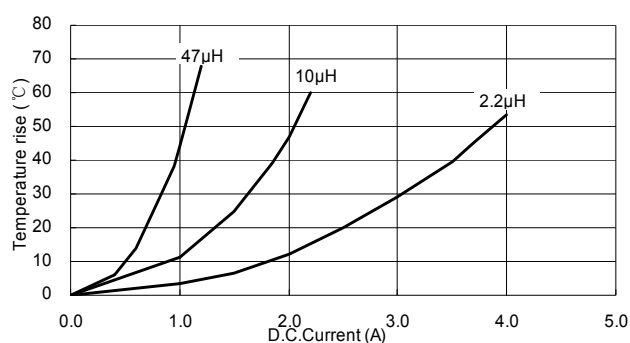
3. Isat: DC current at which the inductance drops approximate 30% from its value without current;

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

