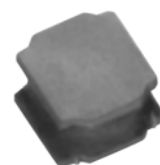


绕线贴片功率电感—ALWPL6045- 系列

Wire Wound SMD Power Inductors—ALWPL6045- 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
- 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

ALWPL

6045

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①	分类 Type
ALWPL	Wire wound SMD power inductor

②	外形尺寸(L×H) (mm) External Dimensions(L×H) [mm]
6045	6.0X4.5

③	特性类型 Feature type
—	标准型 Standard

④	公称感量 Nominal Inductance
Example	Nominal Value
1R2	1.2μH
100	10μH

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

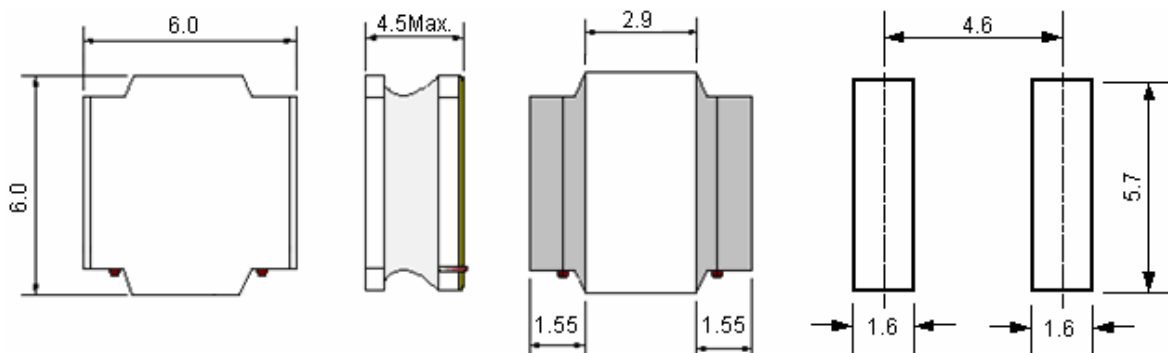
⑥	包装 Packing
T	编带 Tape Carrier Package

外观尺寸

SHAPE AND DIMENSIONS

Unit: mm Tolerance: ±0.3

Recommended Land Pattern



规格特性

SPECIFICATIONS

ALWPL6045- 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
ALWPL6045-R82NT	0.82±30%	0.008	140	10.35	5.90
ALWPL6045-1R0NT	1.0±30%	0.011	100	9.85	5.14
ALWPL6045-1R2NT	1.2±30%	0.010	100	8.35	5.40
ALWPL6045-1R5NT	1.5±30%	0.012	65	8.80	4.95
ALWPL6045-1R8NT	1.8±30%	0.012	74	7.60	4.95
ALWPL6045-2R2NT	2.2±30%	0.014	52	6.75	4.60
ALWPL6045-2R7NT	2.7±30%	0.015	38	5.75	4.30
ALWPL6045-3R6NT	3.6±30%	0.021	28	5.25	3.70
ALWPL6045-4R3NT	4.3±30%	0.023	23	4.45	3.50
ALWPL6045-4R7MT	4.7±20%	0.026	24	4.97	3.30
ALWPL6045-5R1MT	5.1±20%	0.026	23	4.40	3.30
ALWPL6045-5R6MT	5.6±20%	0.029	23	4.15	3.15
ALWPL6045-6R2MT	6.2±20%	0.031	26	4.43	3.00
ALWPL6045-6R8MT	6.8±20%	0.031	20	3.90	3.00
ALWPL6045-7R5MT	7.5±20%	0.034	18	3.50	2.90
ALWPL6045-8R2MT	8.2±20%	0.043	21	3.90	2.60
ALWPL6045-9R1MT	9.1±20%	0.043	17	3.35	2.60
ALWPL6045-100MT	10±20%	0.048	15	3.20	2.45
ALWPL6045-120MT	12±20%	0.058	13	2.80	2.20
ALWPL6045-150MT	15±20%	0.068	12	2.50	2.05
ALWPL6045-180MT	18±20%	0.081	10	2.20	1.85
ALWPL6045-220MT	22±20%	0.089	10	2.05	1.80
ALWPL6045-270MT	27±20%	0.102	9.2	1.90	1.65
ALWPL6045-300MT	30±20%	0.132	7.8	1.70	1.50
ALWPL6045-330MT	33±20%	0.137	7.8	1.65	1.45
ALWPL6045-390MT	39±20%	0.180	7.8	1.50	1.25
ALWPL6045-430MT	43±20%	0.200	7.7	1.63	1.20
ALWPL6045-470MT	47±20%	0.200	6.4	1.40	1.20
ALWPL6045-510MT	51±20%	0.207	6.4	1.35	1.15
ALWPL6045-560MT	56±20%	0.221	6.4	1.30	1.10
ALWPL6045-620MT	62±20%	0.235	6.4	1.25	1.10
ALWPL6045-680MT	68±20%	0.289	6.4	1.20	1.00
ALWPL6045-750MT	75±20%	0.305	5.0	1.15	0.95
ALWPL6045-820MT	82±20%	0.341	4.9	1.05	0.90
ALWPL6045-910MT	91±20%	0.359	4.9	1.00	0.85
ALWPL6045-101MT	100±20%	0.433	4.2	0.95	0.80
ALWPL6045-121MT	120±20%	0.484	4.2	0.85	0.77
ALWPL6045-151MT	150±20%	0.580	4.2	0.80	0.70
ALWPL6045-221MT	220±20%	0.834	3.5	0.70	0.59
ALWPL6045-331MT	330±20%	1.270	2.8	0.57	0.57

※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.

