



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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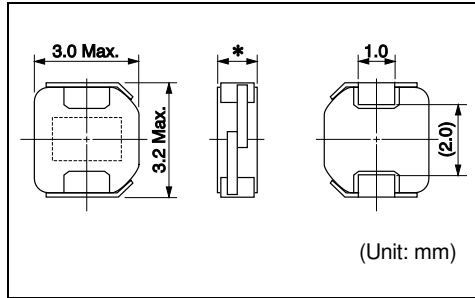
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



DEM2812C



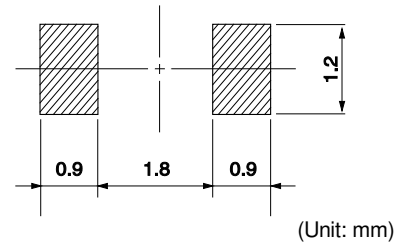
Inductance Range: 0.47~12μH



Note (*) 1.2mm Max. height

Recommended patterns

推荐焊盘尺寸



FEATURES 特点

- Low profile (2.8 × 3.0mm square, 1.2mm Max.height).
- Magnetically shielded construction and low DC resistance.
- Ideal for a variety of DC-DC converter inductor applications.
- Operating temperature (− 40~+85°C)
- 薄型构造（最大2.8×3.0毫米的平面，最大高度 1.2毫米）
- 磁性屏蔽结构和低直流电阻
- 是适用于多种DC-DC转换器电感器的理想选择
- 使用温度范围：− 40 ~ +85°C

STANDARD PART NUMBERS 标准零件号码

TYPE DEM2812C (Magnetically Shielded, Quantity/reel; 2,000 PCS)

| 零件号码 | 电感值 ⁽¹⁾ | 公差 | 最大直流电阻 ⁽²⁾ (典型) | 最大电感减小电流 ⁽³⁾ (典型) | 最大温度上升电流 ⁽³⁾ (典型) |
|------------------|-----------------------------------|---------------|--|--|---|
| Part Number | Inductance ⁽¹⁾ (μH) | Tolerance (%) | DC Resistance ⁽²⁾ (mΩ) Max. (Typ.) | Inductance Decrease Current ⁽³⁾ (A) Max. (Typ.) $\frac{\Delta L}{L} = 30\%$ | Temperature Rise Current ⁽³⁾ $\Delta T = 40^\circ C$ (A) Max. (Typ.) |
| 1225AS-H-R47N=P2 | 0.47 | ± 30 | 31 (26) | 2.5 (3.4) | 3.1 (3.7) |
| 1225AS-H-R68N=P2 | 0.68 | ± 30 | 37 (31) | 2.0 (2.7) | 2.9 (3.4) |
| 1225AS-H-1R0N=P2 | 1.0 | ± 30 | 43 (36) | 1.8 (2.4) | 2.7 (3.2) |
| 1225AS-H-1R5N=P2 | 1.5 | ± 30 | 52 (43) | 1.5 (2.1) | 2.4 (2.8) |
| 1225AS-H-2R2M=P2 | 2.2 | ± 20 | 70 (58) | 1.2 (1.6) | 2.0 (2.4) |
| 1225AS-H-3R3M=P2 | 3.3 | ± 20 | 96 (80) | 1.0 (1.4) | 1.5 (1.8) |
| 1225AS-H-4R7M=P2 | 4.7 | ± 20 | 126 (105) | 0.88 (1.2) | 1.4 (1.6) |
| 1225AS-H-6R8M=P2 | 6.8 | ± 20 | 204 (170) | 0.72 (0.96) | 1.1 (1.3) |
| 1225AS-H-100M=P2 | 10 | ± 20 | 300 (250) | 0.58 (0.77) | 0.85 (1.0) |
| 1225AS-H-120M=P2 | 12 | ± 20 | 350 (290) | 0.55 (0.73) | 0.76 (0.95) |

(1) Inductance is measured with a LCR meter 4284A (Agilent Technologies) or equivalent.
Test frequency at 100kHz

(2) DC resistance is measured with 34420A (Agilent Technologies) or 3541 (HIOKI). (Reference ambient temperature 25°C)

(3) Maximum allowable DC current is that which causes a 30% inductance reduction from the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature 20°C)

(1) LCR仪表4284A (Agilent技术)或者功能相同的仪器在100kHz下测试电感值。

(2) 通过数码万用表34420A (Agilent技术) 或者3541(HIOKI)测试直流电阻。(环境温度为25°C)

(3) 允许最大直流电的范围是以下两者中比较小的一个：引起电感值从最初值降低30%，或者线圈温度升高40°C。(参考周围环境温度20°C)。