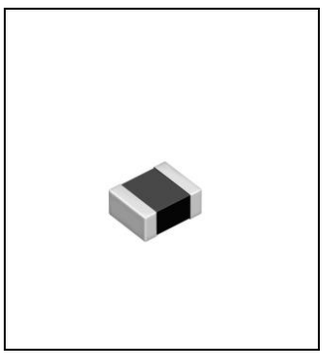
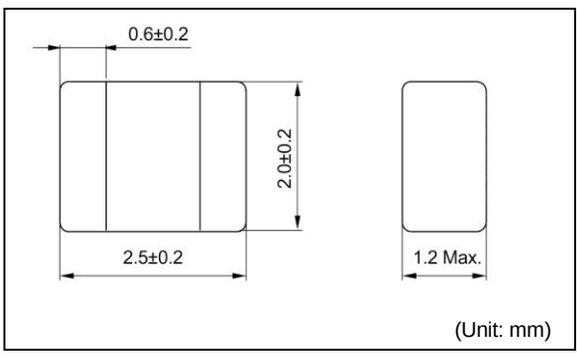
Metal Alloy Inductors
金属合金功率电感器

DFE252012P

RoHS REACH

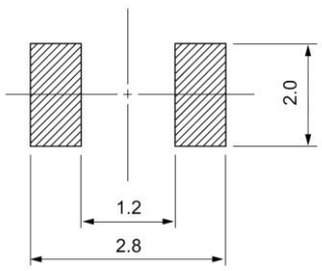
Inductance Range: 0.33~4.7μH





(Unit: mm)

Recommended patterns
推荐焊盘尺寸



(Unit: mm)

FEATURES 特点

- Miniature size: 2520 footprint (2.5mm×2.0mm) and low profile(1.2mm Max. height)
- The use of magnetic iron powder ensure capability for large current.
- The use of Flat wire for Low DC resistance.
- Magnetically shielded, low audible core noise.
- Reflow solderable.
- Operating temperature : -40～+125°C
- AEC-Q200 compliant.

- 小型薄型构造(2.5ｘ2.0ｍｍ、高度1.2mm Max.)
- 使用合金系磁性粉，保证了大电流
- 采用平角线、低直流电阻
- 闭磁路构造、低芯片噪音
- 适合回流焊接
- 使用温度范围：-40～+125°C
- 符合AEC-Q200

STANDARD PART NUMBERS 标准零件号码

TYPE DFE252012P (Quantity/reel; 3,000 PCS)

零件号码	电感值	公差	测试频率	最大直流电阻	最大允许直流电流	
Part Number	Inductance L(μH)	Tolerance (%)	Test Frequency (MHz)	DC Resistance (mΩ) Max. (Typ.)	Rated DC Current (A) Max. (Typ.) ΔL/L=30%	ΔT=40°C
DFE252012PD-R33M=P2	0.33	±20	1	23 (17)	6.0 (7.0)	4.6 (5.4)
DFE252012PD-R47M=P2	0.47	±20	1	27 (21)	5.2 (6.1)	4.0 (4.7)
DFE252012PD-R68M=P2	0.68	±20	1	37 (30)	4.3 (5.1)	3.5 (4.1)
DFE252012PD-1R0M=P2	1.0	±20	1	42 (35)	3.8 (4.5)	3.2 (3.8)
DFE252012PD-1R5M=P2	1.5	±20	1	60 (50)	3.3 (3.9)	2.6 (3.0)
DFE252012PD-2R2M=P2	2.2	±20	1	84 (70)	2.8 (3.3)	2.2 (2.6)
DFE252012PD-3R3M=P2	3.3	±20	1	140 (115)	2.1 (2.5)	1.7 (2.0)
DFE252012PD-4R7M=P2	4.7	±20	1	200 (165)	1.9 (2.2)	1.4 (1.7)

(1) Inductance is measured with a LCR meter 4284A (Agilent Technologies) or equivalent. Test frequency at 1MHz
(2) DC resistance is measured with 34420A (Agilent Technologies) or 3541(HIOKI). (Reference ambient temperature 20°C)
(3) Maximum allowable DC current is that which causes a 30% inductance reduction from the initial value, coil temperature to rise by 40°C whichever is smaller.
(Reference ambient temperature 20°C)
(4) Absolute maximum voltage : 20VDC

(1)LCR仪表4284A (Agilent Technologies)或者功能相同的仪器在1MHz下测试电感值。
(2)通过数码万用表34420A (Agilent Technologies)/ 3541(HIOKI)或者相类似的工具测试直流电阻。（环境温度为20°C）
(3)允许最大直流电的范围是以下两者中比较小的一个：从开始值降低30%的电感值，或者线圈温度升高40°C。
（参考周围环境温度20°C）。
(4) 绝对最高电压20伏特。