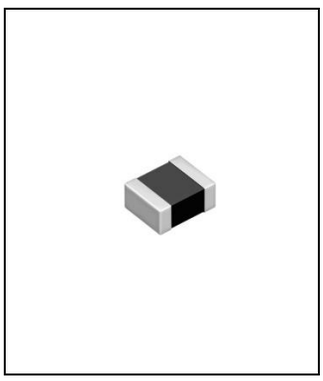
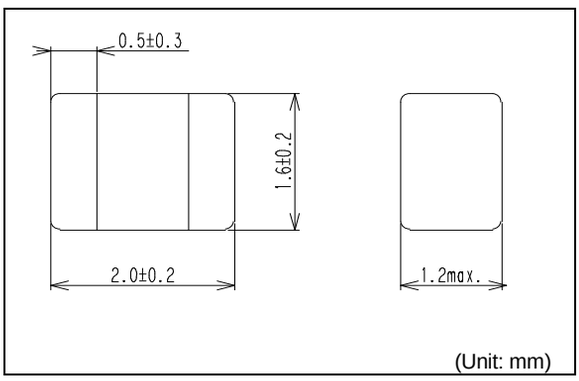
Metal Alloy Inductors
金属合金功率电感器

DFE201612E

125℃ RoHS REACH

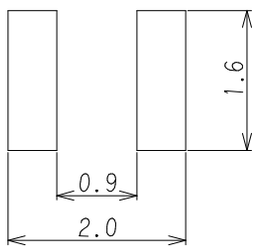
Inductance Range: 0.24~4.7μH





(Unit: mm)

Recommended patterns
推荐焊盘尺寸



(Unit: mm)

FEATURES　特点

- Miniature size: 2016 footprint (2.0mm×1.6mm) 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

- 小型薄型构造(2.0ｘ1.6ｍｍ、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

STANDARD PART NUMBERS　标准零件号码

TYPE DFE201612E (Quantity/reel; 3,000 PCS)

零件号码	电感值(1)	公差	测试频率	最大直流电阻(2)	最大电感值减小电流(3)	最大温度上升电流(3)
Part Number	Inductance(1) L(μH)	Tolerance (%)	Test Frequency (MHz)	DC Resistance(2) (mΩ) Max. (Typ.)	Inductance Decrease Current(3) (A) Max. (Typ.) ΔL/L=30%	Temperature Rise Current(3) ΔT=40°C (A) Max. (Typ.)
DFE201612E-R24M=P2	0.24	±20	1	19(13)	6.6(7.8)	5.0(6.0)
DFE201612E-R33M=P2	0.33	±20	1	21(15)	6.3(7.0)	4.8(5.7)
DFE201612E-R47M=P2	0.47	±20	1	26(20)	5.5(6.1)	4.5(5.0)
DFE201612E-R68M=P2	0.68	±20	1	33(27)	4.3(4.8)	3.5(4.1)
DFE201612E-1R0M=P2	1.0	±20	1	48(40)	4.0(4.4)	2.9(3.4)
DFE201612E-1R5M=P2	1.5	±20	1	72(60)	3.2(3.6)	2.3(2.7)
DFE201612E-2R2M=P2	2.2	±20	1	116(97)	2.4(2.7)	1.8(2.1)
DFE201612E-4R7M=P2	4.7	±20	1	252(210)	1.8(2.0)	1.2(1.4)

(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)

(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）。