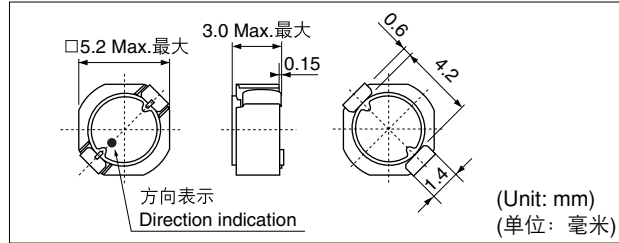
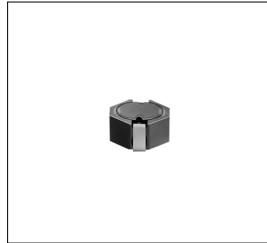


D53LC

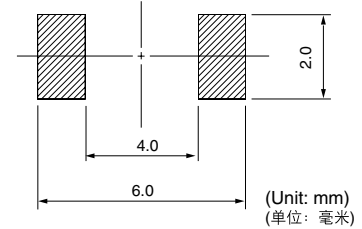
Inductance Range: 1.1~220μH

电感值范围: 1.1~220μH

DIMENSIONS / 尺寸



Recommended patterns 推荐焊盘尺寸



FEATURES / 特点

- Low profile (5.2mm Max. square, 3.0mm Max. height).
- Magnetically shielded construction and low DC resistance.
- Suitable for large currents.
- Ideal for a variety of DC-DC converter inductor applications.
- RoHS compliant.
- 薄型构造 (最大5.2毫米的平面, 最大高度3.0毫米)。
- 磁性屏蔽结构和低直流电阻。
- 适合大电流。
- 是适用于多种DC-DC转换器电感器的理想选择。
- 符合RoHS指令。

SELECTION GUIDE FOR STANDARD COILS / 标准线圈选择指南

TYPE D53LC (High current Type, Quantity/reel; 2,000 PCS) / 型号 D53LC (高电流型号, 每卷数量; 2,000 PCS)

东光零件号码	电感值 ⁽¹⁾	公差	最大直流电阻 ⁽²⁾ (典型)	最大电感值减小电流 ⁽³⁾ (典型)		最大温度上升电流 ⁽³⁾ (典型)
TOKO Part Number	Inductance ⁽¹⁾ (μH)	Tolerance (%)	DC Resistance ⁽²⁾ (mΩ) Max. (Typ.)	Inductance Decrease Current ⁽³⁾ (A) Max. (Typ.)		Temperature Rise Current ⁽³⁾ (A) Max. (Typ.)
				$\frac{\Delta L}{L}=10\%$	$\frac{\Delta L}{L}=30\%$	$\Delta T=40^{\circ}\text{C}$
#A915AY-1R1M	1.1	±20	20 (16)	3.38 (4.50)	3.87 (5.17)	3.46 (4.07)
#A915AY-2R0M	2.0	±20	27 (22)	2.53 (3.38)	2.92 (3.90)	2.80 (3.30)
#A915AY-3R3M	3.3	±20	34 (29)	2.01 (2.68)	2.36 (3.15)	2.40 (2.83)
#A915AY-4R7M	4.7	±20	45 (38)	1.52 (2.03)	1.87 (2.49)	2.13 (2.51)
#A915AY-6R8M	6.8	±20	68 (57)	1.24 (1.66)	1.51 (2.01)	1.75 (2.06)
#A915AY-100M	10.0	±20	90 (75)	1.09 (1.46)	1.33 (1.77)	1.49 (1.76)
#A915AY-150M	15.0	±20	142 (118)	0.88 (1.17)	1.05 (1.40)	1.16 (1.37)
#A915AY-220M	22.0	±20	208 (173)	0.71 (0.95)	0.86 (1.15)	0.86 (1.01)
#A915AY-330M	33.0	±20	257 (214)	0.61 (0.81)	0.72 (0.96)	0.80 (0.94)
#A915AY-470M	47.0	±20	352 (293)	0.53 (0.71)	0.62 (0.83)	0.68 (0.80)
#A915AY-680M	68.0	±20	525 (437)	0.43 (0.57)	0.51 (0.68)	0.55 (0.65)
#A915AY-101M	100.0	±20	801 (667)	0.37 (0.49)	0.43 (0.58)	0.46 (0.55)

TYPE D53LC (Low DC resistance Type, Quantity/reel; 2,000 PCS) / 型号 D53LC (低直流电阻型号, 每卷数量; 2,000 PCS)

东光零件号码	电感值 ⁽¹⁾	公差	最大直流电阻 ⁽²⁾ (典型)	最大电感值减小电流 ⁽³⁾ (典型)		最大温度上升电流 ⁽³⁾ (典型)
TOKO Part Number	Inductance ⁽¹⁾ (μH)	Tolerance (%)	DC Resistance ⁽²⁾ (mΩ) Max. (Typ.)	Inductance Decrease Current ⁽³⁾ (A) Max. (Typ.)		Temperature Rise Current ⁽³⁾ (A) Max. (Typ.)
				$\frac{\Delta L}{L}=10\%$	$\frac{\Delta L}{L}=30\%$	$\Delta T=40^{\circ}\text{C}$
#A915BY-4R7M	4.7	±20	35 (29)	0.91 (1.21)	1.13 (1.51)	2.31 (2.72)
#A915BY-6R8M	6.8	±20	50 (42)	0.81 (1.08)	0.99 (1.32)	1.93 (2.27)
#A915BY-100M	10.0	±20	67 (56)	0.59 (0.79)	0.74 (0.99)	1.60 (1.88)
#A915BY-150M	15.0	±20	97 (81)	0.45 (0.60)	0.58 (0.77)	1.36 (1.60)
#A915BY-220M	22.0	±20	135 (112)	0.40 (0.54)	0.51 (0.68)	1.19 (1.40)
#A915BY-330M	33.0	±20	206 (172)	0.33 (0.45)	0.41 (0.55)	0.92 (1.09)
#A915BY-470M	47.0	±20	268 (224)	0.27 (0.36)	0.34 (0.46)	0.80 (0.94)
#A915BY-680M	68.0	±20	371 (309)	0.23 (0.30)	0.29 (0.39)	0.68 (0.80)
#A915BY-101M	100.0	±20	569 (474)	0.21 (0.28)	0.26 (0.35)	0.54 (0.64)
#A915BY-151M	150.0	±20	940 (785)	0.18 (0.23)	0.21 (0.28)	0.40 (0.47)
#A915BY-221M	220.0	±20	1200 (995)	0.15 (0.20)	0.18 (0.24)	0.35 (0.41)

(1) Inductance is measured with a LCR meter 4284A (Agilent Technologies) or equivalent.

Test frequency at 100kHz

(2) DC resistance is measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

(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TR6871 (Advantest) 或者相类似的工具测试直流电阻。

(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)。