



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
- Operating temperature (−40~+85°C).
- 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
- 使用温度范围：−40 ~ +85°C

STANDARD PART NUMBERS 标准零件号码

TYPE D53LC (High current Type, Quantity/reel; 2,000 PCS)

零件号码	电感值 ⁽¹⁾	公差	最大直流电阻 ⁽²⁾	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.)		Temperature Rise Current ⁽³⁾ ΔT=40°C (A) Max. (Typ.)
				$\frac{\Delta L}{L} = 10\%$	$\frac{\Delta L}{L} = 30\%$	
#A915AY-1R1M=P3	1.1	±20	20 (16)	3.38 (4.50)	3.87 (5.17)	3.46 (4.07)
#A915AY-2R0M=P3	2.0	±20	27 (22)	2.53 (3.38)	2.92 (3.90)	2.80 (3.30)
#A915AY-3R3M=P3	3.3	±20	34 (29)	2.01 (2.68)	2.36 (3.15)	2.40 (2.83)
#A915AY-4R7M=P3	4.7	±20	45 (38)	1.52 (2.03)	1.87 (2.49)	2.13 (2.51)
#A915AY-6R8M=P3	6.8	±20	68 (57)	1.24 (1.66)	1.51 (2.01)	1.75 (2.06)
#A915AY-100M=P3	10	±20	90 (75)	1.09 (1.46)	1.33 (1.77)	1.49 (1.76)
#A915AY-150M=P3	15	±20	142 (118)	0.88 (1.17)	1.05 (1.40)	1.16 (1.37)
#A915AY-220M=P3	22	±20	208 (173)	0.71 (0.95)	0.86 (1.15)	0.86 (1.01)
#A915AY-330M=P3	33	±20	257 (214)	0.61 (0.81)	0.72 (0.96)	0.80 (0.94)
#A915AY-470M=P3	47	±20	352 (293)	0.53 (0.71)	0.62 (0.83)	0.68 (0.80)
#A915AY-680M=P3	68	±20	525 (437)	0.43 (0.57)	0.51 (0.68)	0.55 (0.65)
#A915AY-101M=P3	100	±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)

零件号码	电感值 ⁽¹⁾	公差	最大直流电阻 ⁽²⁾	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.)		Temperature Rise Current ⁽³⁾ ΔT=40°C (A) Max. (Typ.)
				$\frac{\Delta L}{L} = 10\%$	$\frac{\Delta L}{L} = 30\%$	
#A915BY-4R7M=P3	4.7	±20	35 (29)	0.91 (1.21)	1.13 (1.51)	2.31 (2.72)
#A915BY-6R8M=P3	6.8	±20	50 (42)	0.81 (1.08)	0.99 (1.32)	1.93 (2.27)
#A915BY-100M=P3	10	±20	67 (56)	0.59 (0.79)	0.74 (0.99)	1.60 (1.88)
#A915BY-150M=P3	15	±20	97 (81)	0.45 (0.60)	0.58 (0.77)	1.36 (1.60)
#A915BY-220M=P3	22	±20	135 (112)	0.40 (0.54)	0.51 (0.68)	1.19 (1.40)
#A915BY-330M=P3	33	±20	206 (172)	0.33 (0.45)	0.41 (0.55)	0.92 (1.09)
#A915BY-470M=P3	47	±20	268 (224)	0.27 (0.36)	0.34 (0.46)	0.80 (0.94)
#A915BY-680M=P3	68	±20	371 (309)	0.23 (0.30)	0.29 (0.39)	0.68 (0.80)
#A915BY-101M=P3	100	±20	569 (474)	0.21 (0.28)	0.26 (0.35)	0.54 (0.64)
#A915BY-151M=P3	150	±20	940 (785)	0.18 (0.23)	0.21 (0.28)	0.40 (0.47)
#A915BY-221M=P3	220	±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 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)。