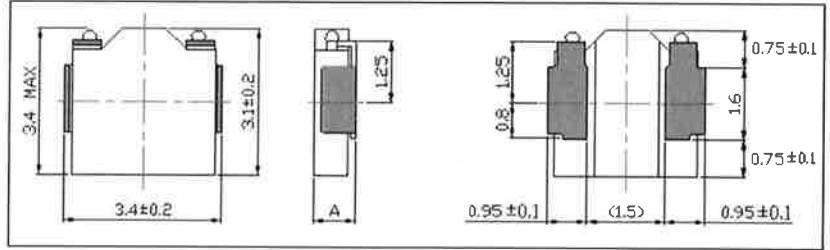
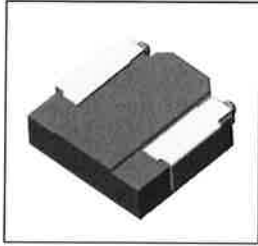


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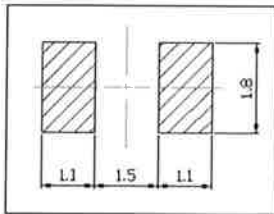
Inductance Range : 0.47 ~ 4.7 μ H (SMF 0310-AH-Series)
使用電感範圍 0.47 ~ 4.7 μ H (SMF 0312-AH-Series)
0.47 ~ 4.7 μ H (SMF 0315-AH-Series)
0.47 ~ 4.7 μ H (SMF 0320-AH-Series)

Dimensions 外型與尺寸



A = 0310 : 1.0 mm Max. / 0312 : 1.2 mm Max. / 0315 : 1.5 mm Max. / 0320 : 2.0 mm Max.

Recommended Patterns 推薦焊盤尺寸



Features : 特點

- Small and thickness 3.4 X 3.4 mm Square and 1.0 / 1.2 / 1.5 / 2.0 mm Max.height .
- Magnetically shielded construction,low DC resistance .
- Using high saturating flux density magnetic iron powder ensure capability for large current .
- High Curie's Temp. for wider function Temp. .
- Low audible core noise .
- Ideal for DC-DC converter applications .
- RoHS compliant. Halogen Free .
- 小型薄形:3.4 X 3.4 mm 的平面,最大高度 1.0 / 1.2 / 1.5 / 2.0 mm
- 磁性屏蔽結構,低直流電阻。
- 使用高飽和磁束密度合金系磁性粉,可保證大電流。
- 居里溫度高,動作溫度範圍廣。
- 低芯片噪音。
- DC-DC 轉換器電感器的理想選擇。
- 符合 RoHS 指令,無鹵素。

Using : 用途

Smartphones (智慧手機), Note Book (個人平板電腦), Others (其他)

Part Numbers : 品名稱呼

SMF 0312 T - 1R0 - M - AH

(1) (2) (3) (4) (5) (6)

- (1) Part Numbers (系列名) : SMF-扁線
- (2) Dimensions (尺寸L*H) : 0312 - 3.4 * 1.2 mm Max.
- (3) Packing (包裝方式) : T - Carrier Tape (承載膠帶)
- (4) Inductance Value (電感值) : 1R0 - 1.0 μ H
- (5) Inductance Tolerance (電感值公差) : M = \pm 20%
- (6) AH : LY Numbers (龍翌編號)

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LY Standard Part Numbers : 龍翌標準品名

TYPE SMF 0310-AH (Quantity / Reel : 4000 PCS)

龍翌品名號碼	電感值 ①	公差	最大直流電阻 ②		最大電感減小電流 ③		最大溫度上昇電流 ④	
LY Part Numbers	Inductance ① (μH)	Tolerance (%)	DC Resistance ② (mΩ)		Inductance Decrease current ③ ΔL/L=30%		Temperature Rise Current ④ ΔT=40°C	
			Typical	Maximum	Typical	Maximum	Typical	Maximum
SMF 0310T-R47M-AH	0.47	±20%	22.5	26.5	7.0	6.2	5.6	5.0
SMF 0310T-R68M-AH	0.68	±20%	30.5	35.5	6.0	5.2	4.6	4.0
SMF 0310T-1R0M-AH	1.0	±20%	49.0	58.5	5.6	5.0	3.4	3.0
SMF 0310T-1R5M-AH	1.5	±20%	88.0	105.0	4.2	3.7	2.4	2.1
SMF 0310T-2R2M-AH	2.2	±20%	99.5	118.0	2.7	2.3	2.3	2.0
SMF 0310T-3R3M-AH	3.3	±20%	135.0	160.0	2.2	1.8	2.1	1.7
SMF 0310T-4R7M-AH	4.7	±20%	183.0	215.0	2.1	1.8	1.8	1.5

TYPE SMF 0312-AH (Quantity / Reel : 4000 PCS)

龍翌品名號碼	電感值 ①	公差	最大直流電阻 ②		最大電感減小電流 ③		最大溫度上昇電流 ④	
LY Part Numbers	Inductance ① (μH)	Tolerance (%)	DC Resistance ② (mΩ)		Inductance Decrease current ③ ΔL/L=30%		Temperature Rise Current ④ ΔT=40°C	
			Typical	Maximum	Typical	Maximum	Typical	Maximum
SMF 0312T-R47M-AH	0.47	±20%	15.3	17.8	8.0	7.2	6.6	5.9
SMF 0312T-R68M-AH	0.68	±20%	21.2	24.8	6.0	5.2	5.6	5.0
SMF 0312T-1R0M-AH	1.0	±20%	29.0	34.0	5.0	4.4	4.7	4.2
SMF 0312T-1R5M-AH	1.5	±20%	49.0	58.0	4.3	3.7	3.6	3.2
SMF 0312T-2R2M-AH	2.2	±20%	63.5	74.0	3.7	3.1	3.1	2.7
SMF 0312T-3R3M-AH	3.3	±20%	110.0	129.0	3.0	2.6	2.4	2.1
SMF 0312T-4R7M-AH	4.7	±20%	163.0	190.0	2.1	1.8	2.0	1.7

TYPE SMF 0315-AH (Quantity / Reel : 3000 PCS)

龍翌品名號碼	電感值 ①	公差	最大直流電阻 ②		最大電感減小電流 ③		最大溫度上昇電流 ④	
LY Part Numbers	Inductance ① (μH)	Tolerance (%)	DC Resistance ② (mΩ)		Inductance Decrease current ③ ΔL/L=30%		Temperature Rise Current ④ ΔT=40°C	
			Typical	Maximum	Typical	Maximum	Typical	Maximum
SMF 0315T-R47M-AH	0.47	±20%	10.6	12.3	8.1	7.2	9.0	8.0
SMF 0315T-R68M-AH	0.68	±20%	14.6	17.2	6.4	5.4	7.1	6.3
SMF 0315T-1R0M-AH	1.0	±20%	24.3	28.1	6.5	5.8	5.6	5.0
SMF 0315T-1R5M-AH	1.5	±20%	40.5	48.0	4.4	3.7	4.1	3.6
SMF 0315T-2R2M-AH	2.2	±20%	51.0	60.5	3.6	3.2	3.7	3.3
SMF 0315T-3R3M-AH	3.3	±20%	110.0	129.0	3.4	2.9	2.5	2.2
SMF 0315T-4R7M-AH	4.7	±20%	130.0	152.0	2.7	2.3	2.3	2.0

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LY Standard Part Numbers : 龍翌標準品名

TYPE SMF 0320-AH (Quantity / Reel : 2500 PCS)

龍翌品名號碼 LY Part Numbers	電感值 ① Inductance ① (μH)	公差 Tolerance (%)	最大直流電阻 ② DC Resistance ② (mΩ)		最大電感減小電流 ③ Inductance Decrease current ③ ΔL/L=30%		最大溫度上昇電流 ④ Temperature Rise Current ④ ΔT=40°C	
			Typical	Maximum	Typical	Maximum	Typical	Maximum
SMF 0320T-R47M-AH	0.47	±20%	12.5	14.6	12.0	10.8	7.4	6.6
SMF 0320T-R68M-AH	0.68	±20%	12.6	14.8	6.7	5.7	7.4	6.6
SMF 0320T-1R0M-AH	1.0	±20%	18.2	21.3	6.5	5.6	6.3	5.6
SMF 0320T-1R5M-AH	1.5	±20%	40.5	47.0	5.0	4.4	3.9	3.5
SMF 0320T-2R2M-AH	2.2	±20%	56.5	65.0	4.6	4.1	3.4	3.0
SMF 0320T-3R3M-AH	3.3	±20%	102.0	119.0	3.3	2.9	2.5	2.2
SMF 0320T-4R7M-AH	4.7	±20%	132.0	156.0	3.0	2.6	2.2	1.9

① Inductance is measured with a LCR meter E4980A (Agilent Technologies) or equivalent. Test frequency at 100kHz.

② DC resistance is measured with 16502 Milliohm Meter. (Chroma Technologies) (Reference ambient temperature 25°C)

③ Inductance decrease current based upon 30% inductance reduction (Approximately transient current) from the initial value. Inductance decrease current is measured with 3302 Automatic Component Analyzer and 1320 Bias Current Source. (Chroma Technologies)

④ Temperature rise current based upon 40°C temperature rise. (Reference ambient temperature 25°C)

⑤ Operating temperature range -55°C ~ +155°C

① 電感值是以LCR儀表E4980A (Agilent技術) 或者相同功能儀器在100kHz下測試。

② 直流電阻值是通過毫歐姆表16502 (Chroma技術)測得。(測試環境溫度為25°C)。

③ 電感值降低電流是基於電感值從最初的值降低30%計算。(瞬間電流) 電感值降低電流是以3302自動零件分析儀和1320直流重疊電流源測得。(Chroma技術)

④ 溫度升高電流是基於溫度上昇40°C 的基礎上衡量的(測試環境溫度為25°C)。

⑤ 動作溫度範圍是 -55°C ~ +155°C

Notice : Please be sure that you carefully discuss your planned purchase with our sales division if you prepare to use the product for business use etc.is severe.

注意:如果您準備使用該產品作為商業用途等,請您與我們的銷售部詳細討論您的購買計劃。