

SMT Shielded Power Inductors

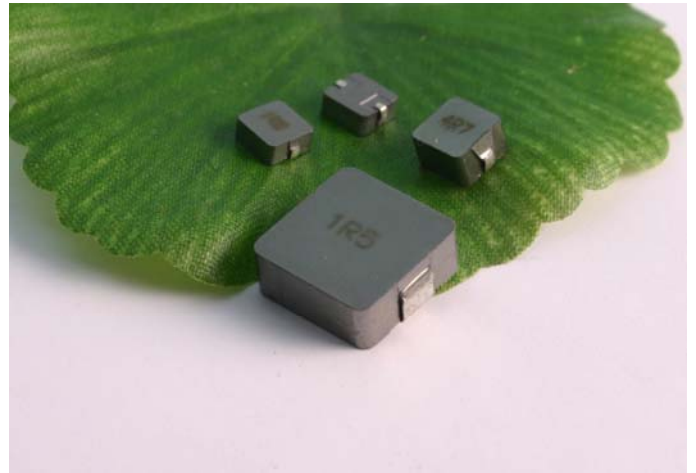
GSMPI0402N / GSMPI0703N / GSMPI0735N GSMPI1004N

Features (特長)

- Magnetically shielded construction (閉磁路構造設計)
- Compact and thin (輕便薄小)
- Large Current and Low DCR (大電流低直流阻抗)

Applications (用途)

- DC-DC converter of portable equipment. (攜帶機器之直流轉換器)
- Camcorder, LCD television set, Digital camera, P.D.A., Notebook. (攝影機、液晶電視、數位相機、P.D.A.、筆記型電腦)



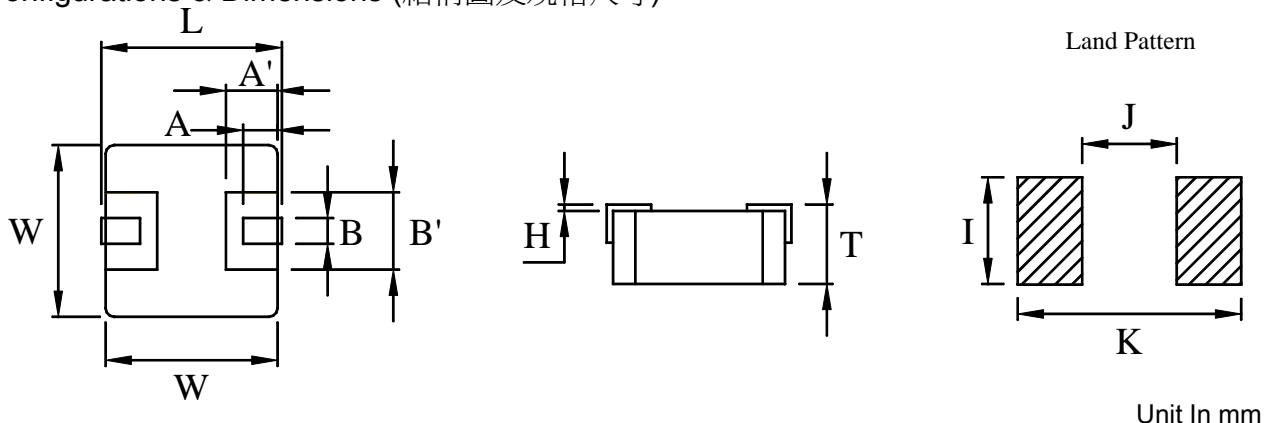
Product Identification (產品識別)

GSMPI0402N - ____ ____ (Ex. GSMPI0402N-100M)

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1. SMT Shielded Power Inductors (閉磁式功率電感)
(GSMPI0402N, GSMPI0703N, GSMPI0735N, GSMPI1004N)
2. Inductance (電感值)
3. Tolerance (誤差值) (參照表 M 20%)

Configurations & Dimensions (結構圖及規格尺寸)



Type (型式)	A	A'	B	B'	H	I	J	K	L(max)	W	T(max)
GSMPI0402N	0.8±0.3	1.2±0.2	0.6±0.3	1.8±0.2	0.0~0.3	2.5	2.2	5.2	4.6	4.0±0.2	2.0
GSMPI0703N	1.6±0.3	2.0±0.1	1.2±0.3	1.8±0.2	0.0~0.3	3.5	3.7	7.4	7.4	6.5±0.2	3.0
GSMPI0735N	1.6±0.3	2.0±0.1	1.2±0.3	3.5±0.2	0.0~0.3	3.5	3.7	7.4	7.4	6.5±0.2	3.5
GSMPI1004N	2.0±0.5	2.5±0.1	2.0±0.5	4.6±0.2	0.0~0.3	4.1	5.4	13.6	11.5	10±0.3	4.0

♣ Design as Customer's Requested Specifications. (可依客戶特殊需求設計)

SMT Shielded Power Inductors GSMPI0402N

Electrical Characteristics for GSMPI0402N Series [GSMPI0402N 系列電子特性規格]

Part Number 產品料號	Inductance (μ H) 電感值 (L)	Test Freq. (KHz) 測試頻率	DCR (m Ω) (max) 直流阻抗	Isat (A) (max) 定格電流	Irms (A) (max) 溫昇電流
GSMPI0402N – R22M	0.22	100	9.30	15.0	10.0
GSMPI0402N – R47M	0.47	100	14.00	9.0	8.0
GSMPI0402N – R56M	0.56	100	14.70	8.0	7.0
GSMPI0402N – R68M	0.68	100	16.20	7.0	6.3
GSMPI0402N – R82M	0.82	100	19.20	6.5	5.5
GSMPI0402N – 1R0M	1.00	100	21.60	6.0	5.0
GSMPI0402N – 1R2M	1.20	100	22.80	5.0	5.0
GSMPI0402N – 1R5M	1.50	100	30.48	4.5	4.5
GSMPI0402N – 2R2M	2.20	100	33.00	4.0	4.5
GSMPI0402N – 4R3M	4.30	100	100.00	3.8	2.6

GSMPI0703N

Electrical Characteristics for GSMPI0703N Series [GSMPI0703N 系列電子特性規格]

Part Number 產品料號	Inductance (μ H) 電感值 (L)	Test Freq. (KHz) 測試頻率	DCR (m Ω) (max) 直流阻抗	Isat (A) (max) 定格電流	Irms (A) (max) 溫昇電流
GSMPI0703N – R22M	0.22	100	2.40	34.0	23.0
GSMPI0703N – R36M	0.36	100	4.30	24.0	18.0
GSMPI0703N – R47M	0.47	100	4.50	19.0	17.0
GSMPI0703N – R56M	0.56	100	5.00	17.0	15.0
GSMPI0703N – R68M	0.68	100	5.00	19.0	16.0
GSMPI0703N – R82M	0.82	100	6.60	14.0	12.0
GSMPI0703N – 1R0M	1.00	100	7.00	13.0	11.0
GSMPI0703N – 1R1M	1.10	100	7.00	13.0	11.0
GSMPI0703N – 1R5M	1.50	100	10.00	12.0	10.0
GSMPI0703N – 2R2M	2.20	100	20.00	11.0	7.0
GSMPI0703N – 3R3M	3.30	100	24.00	10.0	7.0
GSMPI0703N – 4R7M	4.70	100	35.00	7.0	5.0
GSMPI0703N – 5R6M	5.60	100	45.00	6.0	5.0
GSMPI0703N – 6R8M	6.80	100	50.00	5.5	4.5
GSMPI0703N – 8R2M	8.20	100	54.00	5.0	4.5

- ※Test Freq. : 100KHz / 0.25V.
- ※Operating Temp. : -55°C ~ +125°C
- ※Inductance drop = 20% typ. at Isat.
- ※ Δ T=40°C rise at Irms.

SMT Shielded Power Inductors GSMPI0735N

Electrical Characteristics for GSMPI0735N Series [GSMPI0735N 系列電子特性規格]

Part Number	Inductance (μ H)	Test Freq. (KHz)	DCR (m Ω) (max)	Isat (A) (max)	Irms (A) (max)
產品料號	電感值(L)	測試頻率	直流阻抗	定格電流	溫昇電流
GSMPI0735N – 100M	10.00	100	60.00	5.50	3.50

GSMPI1004N

Electrical Characteristics for GSMPI1004N Series [GSMPI1004N 系列電子特性規格]

Part Number	Inductance (μ H)	Test Freq. (KHz)	DCR (m Ω) (max)	Isat (A) (max)	Irms (A) (max)
產品料號	電感值(L)	測試頻率	直流阻抗	定格電流	溫昇電流
GSMPI1004N – R22M	0.22	100	1.10	50.0	39.0
GSMPI1004N – R36M	0.36	100	1.20	43.0	34.0
GSMPI1004N – R45M	0.45	100	1.40	36.0	34.0
GSMPI1004N – R56M	0.56	100	1.80	33.0	29.0
GSMPI1004N – R60M	0.60	100	1.87	32.0	25.0
GSMPI1004N – R68M	0.68	100	3.00	31.0	24.0
GSMPI1004N – R88M	0.88	100	2.46	23.0	18.0
GSMPI1004N – 1R0M	1.00	100	3.20	22.0	22.0
GSMPI1004N – 1R5M	1.50	100	3.70	18.0	20.0
GSMPI1004N – 2R2M	2.20	100	6.60	19.0	14.0
GSMPI1004N – 3R3M	3.30	100	11.40	14.0	10.0
GSMPI1004N – 4R7M	4.70	100	15.50	14.0	9.0
GSMPI1004N – 5R6M	5.60	100	22.00	12.0	8.0
GSMPI1004N – 6R8M	6.80	100	26.00	11.0	7.0
GSMPI1004N – 8R2M	8.20	100	27.80	11.0	7.0
GSMPI1004N – 100M	10.00	100	38.00	10.0	5.5

※Test Freq. : 100KHz / 0.25V.

※Operating Temp. : $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$

※Inductance drop = 20% typ. at Isat.

※ $\Delta T=40^{\circ}\text{C}$ rise at Irms.