

# SMT Shielded Power Inductors

## GSMPI0402N / GSMPI0703N / GSMPI0735N

## GSMPI1004N

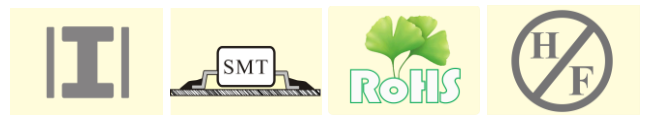
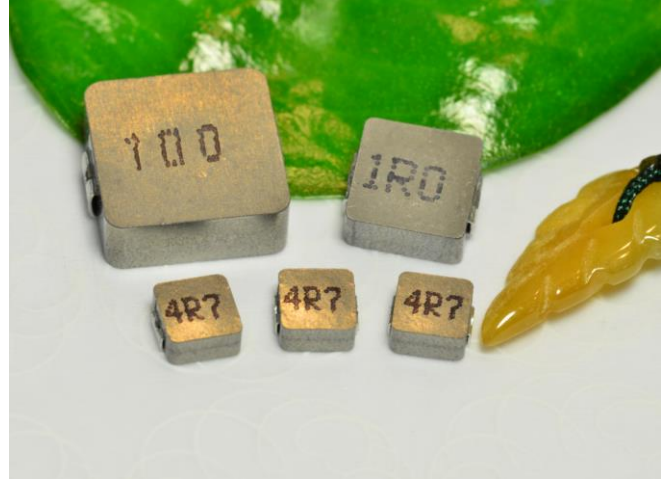
## GSMPC0402CA / GSMPC0703CA / GSMPC1004CA

### 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、GSMPC0402CA)

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1. SMT Shielded Power Inductors (閉磁式功率電感)

(GSMPI0402N, GSMPI0703N, GSMPI0735N, GSMPI1004N, GSMPC0402CA, GSMPC0703CA, GSMPC1004CA)

2. Inductance (電感值)

3. Tolerance (誤差值) ( 參照表 M 20% )

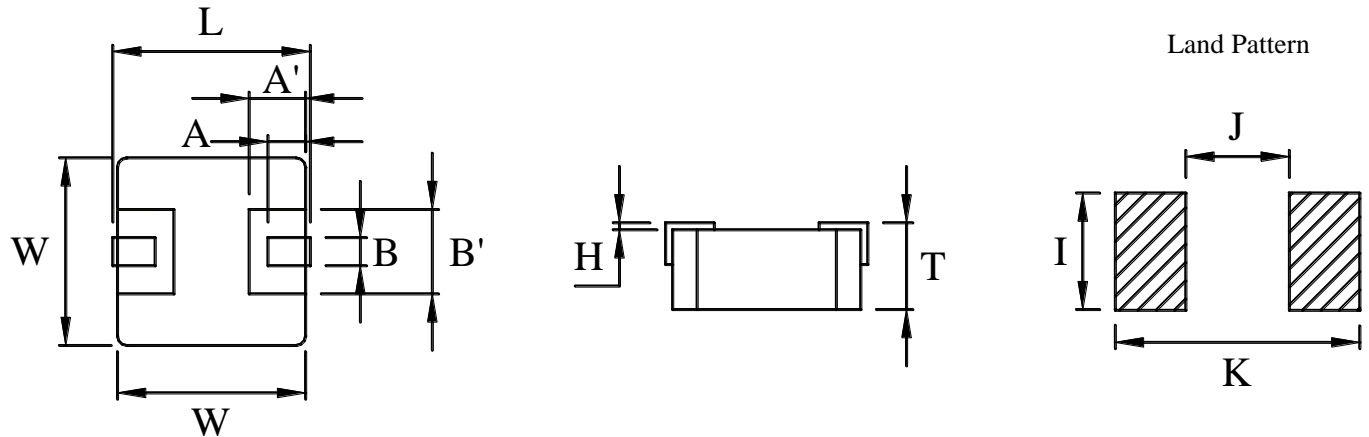
# SMT Shielded Power Inductors

## GSMPI0402N / GSMPI0703N / GSMPI0735N

## GSMPI1004N

## GSMPC0402CA / GSMPC0703CA / GSMPC1004CA

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



Unit In mm

Type (型式)	L	W	T (max)	A	A'	B	B'	H	I	J	K
GSMPI0402N	4.6(max)	4.0 $\pm$ 0.20	2.0	0.8 $\pm$ 0.3	1.2 $\pm$ 0.2	0.6 $\pm$ 0.1	1.8 $\pm$ 0.2	0.30(max)	2.5	2.2	6.0
GSMPI0703N	7.4(max)	6.5 $\pm$ 0.20	3.0	1.6 $\pm$ 0.3	2.0 $\pm$ 0.1	1.2 $\pm$ 0.3	1.8 $\pm$ 0.2	0.30(max)	3.5	3.7	7.4
GSMPI0735N	7.4(max)	6.5 $\pm$ 0.20	3.5	1.6 $\pm$ 0.3	2.0 $\pm$ 0.1	1.2 $\pm$ 0.3	1.8 $\pm$ 0.2	0.30(max)	3.5	3.7	7.4
GSMPI1004N	11.5(max)	10.0 $\pm$ 0.30	4.0	2.0 $\pm$ 0.5	2.5 $\pm$ 0.1	2.0 $\pm$ 0.5	4.6 $\pm$ 0.5	0.30(max)	4.1	5.4	13.6
GSMPC0402CA	4.4 $\pm$ 0.35	4.2 $\pm$ 0.25	2.0	0.8 $\pm$ 0.3	1.0 $\pm$ 0.1	2.0 $\pm$ 0.3	2.5 $\pm$ 0.3	0.15(Ref.)	2.5	2.2	5.2
GSMPC0703CA	7.3 $\pm$ 0.3	6.6 $\pm$ 0.20	3.0	1.6 $\pm$ 0.3	2.0 $\pm$ 0.1	3.0 $\pm$ 0.3	3.6 $\pm$ 0.2	0.15(Ref.)	3.5	3.7	8.4
GSMPC1004CA	11.5(max)	10.0 $\pm$ 0.30	3.8 $\pm$ 0.2	2.0 $\pm$ 0.5	2.5 $\pm$ 0.1	3.0 $\pm$ 0.5	5.0 $\pm$ 0.2	0.15(Ref.)	4.1	5.4	13.6

♣ 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 ( $\mu$ H) 電感值 (L)	Test Freq. (KHz) 測試頻率	DCR (m $\Omega$ ) (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	22.00	5.0	5.0
GSMPI0402N – 1R5M	1.50	100	29.00	4.5	4.5
GSMPI0402N – 2R2M	2.20	100	40.00	4.0	4.5
GSMPI0402N – 3R3M	3.30	100	70.00	4.0	3.3
GSMPI0402N – 4R7M	4.70	100	75.00	4.0	2.7

## GSMPI0703N

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

Part Number 產品料號	Inductance ( $\mu$ H) 電感值 (L)	Test Freq. (KHz) 測試頻率	DCR (m $\Omega$ ) (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. :  $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$

※Inductance drop = 20% typ. at Isat.

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

※Storage Temperature&Humidity :  $\leq 40^{\circ}\text{C}$  & 70% RH maximum

# SMT Shielded Power Inductors

## GSMPI0735N

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

Part Number 產品料號	Inductance ( $\mu$ H) 電感值(L)	Test Freq. (KHz) 測試頻率	DCR (m $\Omega$ ) (max) 直流阻抗	Isat (A) (max) 定格電流	Irms (A) (max) 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 產品料號	Inductance ( $\mu$ H) 電感值(L)	Test Freq. (KHz) 測試頻率	DCR (m $\Omega$ ) (max) 直流阻抗	Isat (A) (max) 定格電流	Irms (A) (max) 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.

※Storage Temperature&Humidity :  $\leq 40^{\circ}\text{C}$  & 70% RH maximum

# SMT Shielded Power Inductors

## GSMPC0402CA

Electrical Characteristics for GSMPI0402N Series [GSMPC0402CA 系列電子特性規格]

Part Number 產品料號	Inductance ( $\mu$ H) 電感值 (L)	Test Freq. (KHz) 測試頻率	DCR (m $\Omega$ ) (max) 直流阻抗	Isat (A) (TYP) 定格電流	Irms (A) (TYP) 溫昇電流
GSMPC0402CA-R22M	0.22	100	6.60	21.0	9.5
GSMPC0402CA-R33M	0.33	100	11.00	12.0	10.0
GSMPC0402CA-R47M	0.47	100	14.00	11.0	7.5
GSMPC0402CA-R56M	0.56	100	16.00	11.0	7.0
GSMPC0402CA-R68M	0.68	100	18.00	8.6	7.0
GSMPC0402CA-1R0M	1.00	100	27.00	8.0	6.0
GSMPC0402CA-1R2M	1.20	100	27.00	7.5	6.0
GSMPC0402CA-1R5M	1.50	100	46.00	7.0	5.0
GSMPC0402CA-2R2M	2.20	100	58.00	5.5	4.5
GSMPC0402CA-3R3M	3.30	100	87.00	4.5	3.3
GSMPC0402CA-4R7M	4.70	100	105.0	3.0	2.8
GSMPC0402CA-6R8M	6.80	100	175.0	2.8	2.4
GSMPC0402CA-100M	10.00	100	282.0	2.2	1.6

## GSMPC0703CA

Electrical Characteristics for GSMPC0703CA Series [GSMPC0703CA 系列電子特性規格]

Part Number 產品料號	Inductance ( $\mu$ H) 電感值 (L)	Test Freq. (KHz) 測試頻率	DCR (m $\Omega$ ) (max) 直流阻抗	Isat (A) (TYP) 定格電流	Irms (A) (TYP) 溫昇電流
GSMPC0703CA-R22M	0.22	100	3.0	42.0	24.0
GSMPC0703CA-R33M	0.33	100	3.5	30.0	21.0
GSMPC0703CA-R47M	0.47	100	4.1	21.0	18.0
GSMPC0703CA-R56M	0.56	100	4.5	19.0	16.5
GSMPC0703CA-R68M	0.68	100	5.3	18.0	16.0
GSMPC0703CA-R82M	0.82	100	6.0	18.0	14.0
GSMPC0703CA-1R0M	1.0	100	7.4	16.0	12.0
GSMPC0703CA-1R5M	1.5	100	12.1	14.0	12.0
GSMPC0703CA-2R2M	2.2	100	15.0	13.0	9.5
GSMPC0703CA-3R3M	3.3	100	22.0	10.5	8.5
GSMPC0703CA-4R7M	4.7	100	33.0	6.5	6.0
GSMPC0703CA-8R2M	8.2	100	60.0	6.0	5.0
GSMPC0703CA-100M	10.0	100	67.0	5.5	4.5
GSMPC0703CA-150M	15.0	100	115.0	4.5	3.0
GSMPC0703CA-220M	22.0	100	200.0	4.0	2.3
GSMPC0703CA-330M	33.0	100	310.0	2.0	3.0

※Test Freq. : 100KHz / 1.0V.

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

※Inductance drop = 30% typ. at Isat.

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

※Storage Temperature&Humidity :  $\leq 40^{\circ}\text{C}$  & 70% RH maximum

# SMT Shielded Power Inductors

## GSMPC1004CA

Electrical Characteristics for GSMPC1004CA Series [GSMPC1004CA 系列電子特性規格]

Part Number 產品料號	Inductance ( $\mu$ H) 電感值 (L)	Test Freq. (KHz) 測試頻率	DCR (m $\Omega$ ) (max) 直流阻抗	Isat (A) (max) 定格電流	Irms (A) (max) 溫昇電流
GSMPC1004CA-R15M	0.15	100	0.65	75.0	45.0
GSMPC1004CA-R22M	0.22	100	1.0	71.0	35.0
GSMPC1004CA-R30M	0.30	100	1.1	52.0	35.0
GSMPC1004CA-R36M	0.36	100	1.2	52.0	30.0
GSMPC1004CA-R47M	0.47	100	1.7	50.0	27.0
GSMPC1004CA-R56M	0.56	100	1.8	40.0	25.0
GSMPC1004CA-R68M	0.68	100	2.4	38.0	23.0
GSMPC1004CA-R80M	0.80	100	2.7	36.0	23.0
GSMPC1004CA-1R0M	1.0	100	3.3	34.0	19.0
GSMPC1004CA-1R5M	1.5	100	4.2	24.5	16.0
GSMPC1004CA-2R2M	2.2	100	7.0	20.5	12.0
GSMPC1004CA-3R3M	3.3	100	11.8	20.5	11.0
GSMPC1004CA-4R7M	4.7	100	20.0	15.5	9.0
GSMPC1004CA-6R8M	6.8	100	25.0	13.0	8.5
GSMPC1004CA-8R2M	8.2	100	27.0	12.0	8.0
GSMPC1004CA-100M	10.0	100	30.0	10.0	7.8
GSMPC1004CA-150M	15.0	100	45.0	7.4	6.5
GSMPC1004CA-220M	22.0	100	66.0	6.5	5.0
GSMPC1004CA-330M	33.0	100	92.0	5.5	4.4
GSMPC1004CA-470M	47.0	100	145.0	4.3	3.3

※Test Freq. : 100KHz / 1.0V.

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

※Inductance drop = 30% typ. at Isat.

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

※Storage Temperature&Humidity :  $\leq 40^{\circ}\text{C}$  & 70% RH maximum