

SMD Common Mode EMI Filters

GSPWC0805ST / GSPWC1206ST / GSPWC4532ST

Features (特長)

- Effective in high frequency noise suppression (高頻之雜訊抑制對策佳)
- The common mode choke coil structure and without degrading the signal (共模扼流線圈結構，訊號不衰減)
- Small Size, Easy to use (體積小、使用方便)

Applications (用途)

- Notebook, USB, HUB (筆記型電腦、USB、HUB)



Product Identification (產品識別)

GSPWC0805ST-____ (Ex. GSPWC0805ST-300)

1 2 3

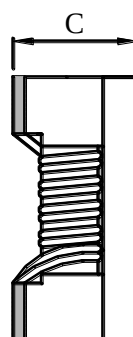
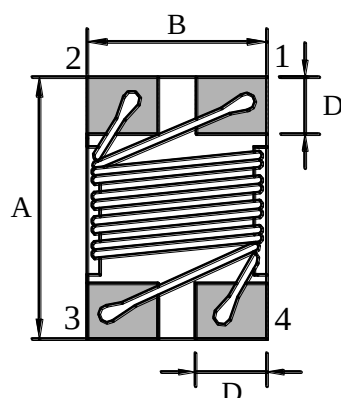
1. SMD Common Mode EMI Filters (共模 EMI 濾波器)
(GSPWC0805ST, GSPWC1206ST, GSPWC4532ST)

2. Impedance (阻抗值)

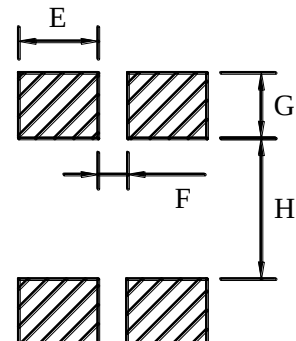
3. Tolerance (誤差值) (參照表 L 25%)



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



Land Pattern



Type (型式)	Unit In mm							
	A ±0.2	B ±0.2	C ±0.2	D	E	F	G	H
GSPWC0805ST	2.0	1.2	1.2	0.45	0.4	0.4	0.8	1.0
GSPWC1206ST	3.2	1.6	1.9	0.6	0.6	0.4	1.1	1.6
GSPWC4532ST	4.5	3.2	2.8	1.2±0.1	1.2	0.75	1.35	2.4

SMD Common Mode EMI Filters

GSPWC0805ST

Electrical Characteristics for GSPWC0805ST Series [GSPWC0805ST 系列電子特性規格]

Part Number 產 品 料 號	Impedance (Z) (Ω)+/-25% 阻抗值	Rated Voltage V (DC) 定格電壓	Withstanding Voltage V (DC) 耐電壓	Rated Current (max)(mA) 定格電流	DCR (Ω) (max) 直流阻抗	Insulation Resistance (MΩ)min 絕緣阻抗
GSPWC0805ST - 250	25	50	125	500	0.20	10
GSPWC0805ST - 300	30	50	125	450	0.20	10
GSPWC0805ST - 400	40	50	125	500	0.12	10
GSPWC0805ST - 500	50	50	125	500	0.20	10
GSPWC0805ST - 670	67	50	125	400	0.25	10
GSPWC0805ST - 750	75	50	125	400	0.30	10
GSPWC0805ST - 900	90	50	125	400	0.30	10
GSPWC0805ST - 101	100	50	125	400	0.30	10
GSPWC0805ST - 121	120	50	125	370	0.30	10
GSPWC0805ST - 161	160	50	125	340	0.30	10
GSPWC0805ST - 201	200	50	125	330	0.35	10
GSPWC0805ST - 221	220	50	125	330	0.35	10
GSPWC0805ST - 331	330	50	125	300	0.50	10
GSPWC0805ST - 371	370	50	125	280	0.40	10
GSPWC0805ST - 601	600	50	125	250	0.40	10
GSPWC0805ST - 801	800	50	125	150	0.80	10
GSPWC0805ST - 901	900	50	125	120	0.80	10
GSPWC0805ST - 102	1000	50	125	100	0.80	10
GSPWC0805ST - 222	2200	50	125	100	1.40	10

※Impedance measured at 100MHz.

※Operating Temp. : -40°C ~ +125°C.

※Storage Temperature&Humidity : ≤ 40°C & 70% RH maximum

SMD Common Mode EMI Filters

GSPWC1206ST

Electrical Characteristics for GSPWC1206ST Series [GSPWC1206ST 系列電子特性規格]

Part Number 產 品 料 號	Impedance (Z) (Ω) +/-25% 阻抗值	Rated Voltage V (DC) 定格電壓	Withstanding Voltage V (DC) 耐電壓	Rated Current (max)(mA) 定格電流	DCR (Ω) (max) 直流阻抗	Insulation Resistance (M Ω)min 絕緣阻抗
GSPWC1206ST - 500	50	50	125	500	0.2	10
GSPWC1206ST - 670	67	50	125	500	0.3	10
GSPWC1206ST - 750	75	50	125	500	0.3	10
GSPWC1206ST - 900	90	50	125	500	0.3	10
GSPWC1206ST - 101	100	50	125	500	0.3	10
GSPWC1206ST - 121	120	50	125	370	0.3	10
GSPWC1206ST - 161	160	50	125	340	0.4	10
GSPWC1206ST - 181	180	50	125	340	0.4	10
GSPWC1206ST - 261	260	50	125	310	0.5	10
GSPWC1206ST - 361	360	50	125	280	0.5	10
GSPWC1206ST - 601	600	50	125	260	0.8	10
GSPWC1206ST -102	1000	50	125	230	1.0	10
GSPWC1206ST - 152	1500	50	125	200	1.0	10
GSPWC1206ST - 222	2200	50	125	200	1.2	10

※Impedance measured at 100MHz.

※Operating Temp. : $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$.

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

SMD Common Mode EMI Filters

GSPWC4532ST(FOR Impedance)

Electrical Characteristics for GSPWC4532ST Series [GSPWC4532ST 系列電子特性規格]

Part Number 產品料號	Impedance (Z) (Ω) +/-25% 阻抗值	Rated Voltage V (DC) 定格電壓	Withstanding Voltage V (DC) 耐電壓	Rated Current (max)(A) 定格電流	DCR (Ω) (max) 直流阻抗	Insulation Resistance (MΩ)min 絕緣阻抗
GSPWC4532ST - 601	600	50	125	1.4	0.24	10
GSPWC4532ST - 801	800	50	125	1.0	0.26	10
GSPWC4532ST - 102	1000	50	125	1.0	0.30	10
GSPWC4532ST - 142	14000	50	125	1.0	0.40	10

GSPWC4532ST+ GSPWC1206ST (FOR Inductance)

Electrical Characteristics for GSPWC4532ST+GSPWC1206ST Series
[GSPWC4532ST+GSPWC4532ST 系列電子特性規格]

Part Number 產品料號	Inductance (uH) 100KHZ 電感值 +50/-30%	Impedance (Z) 10MHZ 阻抗值 Min Typ.	Rated Voltage V (DC) 定格電壓	Rated Current (max)(mA) 定格電流	DCR (Ω) (max) 直流阻抗	Insulation Resistance (MΩ)min 絕緣阻抗
GSPWC4532ST - 110	11	300 600	50	250	0.6	10
GSPWC4532ST - 220	22	500 1200	50	200	1.0	10
GSPWC1206ST - 510	51	1000 2800	50	200	1.0	10
GSPWC1206ST - 101	100	2000 5800	50	150	2.0	10

※Impedance measured at 100MHz.

※Operating Temp. : -40°C ~ +125.°C

※Storage Temperature&Humidity : ≤ 40°C & 70% RH maximum