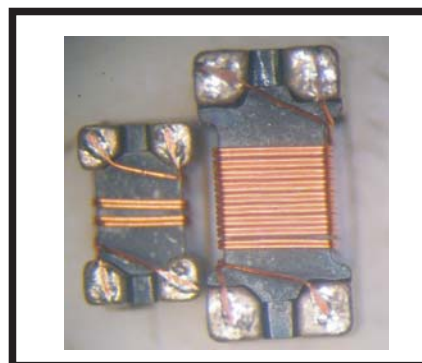


■ 繞綫型片式共模濾波器

WIRE WOUND CHIP COMMON MODE FILTERS



● 特征 FEATURES:

- 體積小，適合高密度表面貼裝；
- 耦合系數大，對高速差分信號影響小
- 對高頻共模噪聲有良好的抑制作用；
- 對不同的噪聲水平和信號頻率，有67Ω ~ 2200Ω 可供選擇。
- Minature size, suitable for SMT;
- With large coupling coefficient , little impact on high-speed differential signal
- Prevention of common mode noise at high frequency;
- 67Ω ~ 2200Ω are optional for different noise level and signal frequency.

● 應用 APPLICATIONS

- 電腦及外設的USB綫；
- 筆記本電腦、LCD的LVDS綫；
- 數碼AV設備等的USB綫。
- USB lines of PC,peripheral equipments;
- LVDS lines of note PC,LCD;
- USB lines of small digital AV equipment,etc.

■ 產品規格型號的表示方法 ORDERING CODE

$\frac{\text{CMC}}{\text{①}}$ $\frac{\text{0805}}{\text{②}}$ $\frac{\text{S}}{\text{③}}$ — $\frac{\text{900}}{\text{④}}$ $\frac{\text{T}}{\text{⑤}}$

①

②

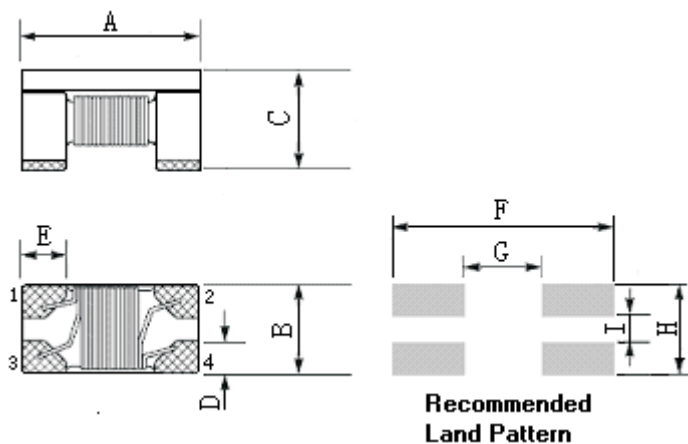
③

④

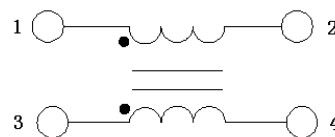
⑤

產品代號 Code	規格尺寸 Dimensions (L × W) (mm)		設計代號 Design Symbol		阻抗(Ω) Impedance		包裝方式 Packaging Style	
CMC	0805	2.0×1.2	S	電磁屏蔽式 Magnetically Shielded	900	90Ω	T	卷帶盤裝 Tape&Reel
	1206	3.2×1.6	H	電磁開放式 Open Magnetic	371	370Ω	B	散裝Bulk
					222	2200Ω		

■ 外形尺寸 DIMENSIONS



■ 等效電路 Equivalent Circuit



單位(Unit): mm/inch

Par NO.	A	B	C	D	E	F	G	H	I
CMC0805S	2.0±0.2 (.078±.008)	1.2±0.2 (.047±.008)	1.2±0.2 (.047±.008)	0.45 (.018)	0.45 (.018)	2.60 (.102)	0.80 (.031)	1.20 (.047)	0.40 (.016)
CMC1206S	3.2±0.2 (.126±.008)	1.6±0.2 (.063±.008)	1.8±0.2 (.071±.008)	0.60 (.024)	0.70 (.028)	3.70 (.146)	1.60 (.063)	1.60 (.063)	0.40 (.016)

■ 電性能參數 ELECTRICAL CHARACTERISTICS

0805 Series

型号 PartNumber	共模阻抗 Common Mode Impedance @100MHz(Ω)	直流电阻 Rdc(Ω) Max	额定电流 Idc(mA) Max	额定电压 Vdc (V) Max	绝缘电阻 IR(MΩ) min
CMC0805S-670T	67±25%	0.25	400	50	10
CMC0805S-900T	90±25%	0.35	330	50	10
CMC0805S-121T	120±25%	0.30	370	50	10
CMC0805S-181T	180±25%	0.35	330	50	10
CMC0805S-261T	260±25%	0.40	300	50	10
CMC0805S-301T	300±25%	0.42	290	50	10
CMC0805S-371T	370±25%	0.45	280	50	10
CMC0805S-601T	600±25%	0.60	220	50	10

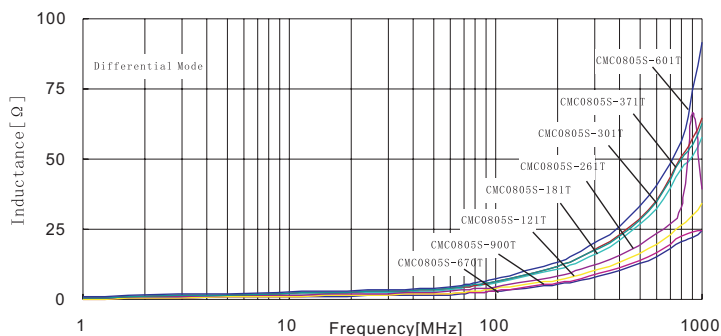
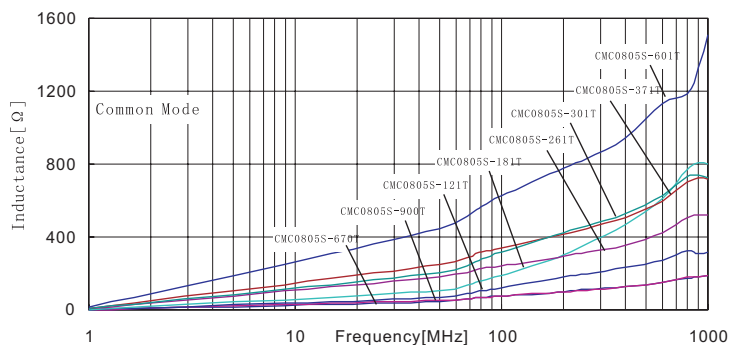
1206 Series

型号 PartNumber	共模阻抗 Common Mode Impedance @100MHz(Ω)	直流电阻 Rdc(Ω) Max	额定电流 Idc(mA) Max	额定电压 Vdc (V) Max	绝缘电阻 IR(MΩ) min
CMC1206S-900T	90±25%	0.30	370	50	10
CMC1206S-161T	160±25%	0.40	340	50	10
CMC1206S-261T	260±25%	0.50	310	50	10
CMC1206S-601T	600±25%	0.80	260	50	10
CMC1206S-801T	800±25%	0.90	240	50	10
CMC1206S-102T	1000±25%	1.00	230	50	10
CMC1206S-222T	2200±25%	1.20	200	50	10

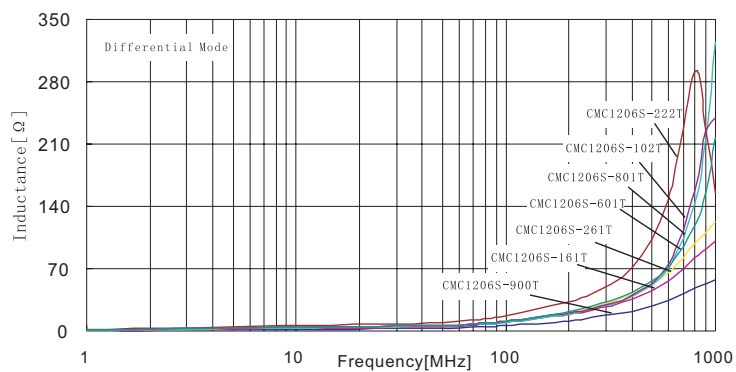
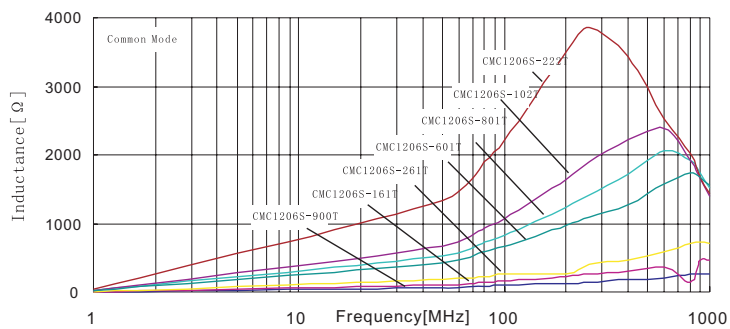
■ 特性曲線
CHARACTERISTIC CURVE

● 頻率特性
FREQUENCY CHARACTERISTIC

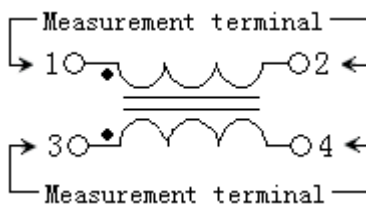
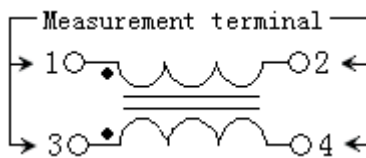
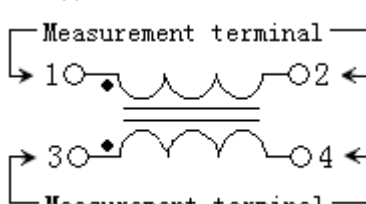
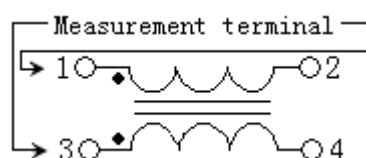
CMC0805S TYPE



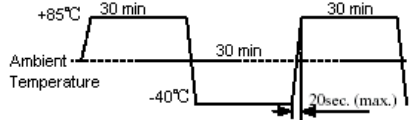
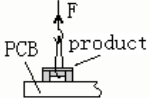
CMC1206S TYPE



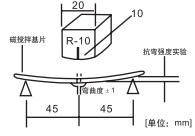
■ 電性能測試 Electrical Specification Test

序號 NO.	項目 Item	詳細說明Specified value	試驗方法Test methods
		0805、1206	
1	工作溫度 Operating Temp. Range	-40°C~+85°C	
2	儲存溫度 Storage Temp. Range	-10°C~+40°C	
3	額定電流 Rated Current	220~400mA(Max)	<p>測試設備: CH102+1320 or HP4284A+HP42841A Test Equipment: CH102+1320 or HP4284A+HP42841A</p> 
4	阻抗值 Impedance	67~2200Ω	<p>測試頻率: 100MHz Test Frequency: 100MHz 測試設備: HP4286A or HP4287A +16193A or 16197A Test Equipment: HP4286A or HP4287A+16193A or 16197A</p> 
5	直流電阻 Rdc	0.25~1.2Ω(Max)	<p>測試設備: HP4263B or HP4286A Test Equipment: HP4263B or HP4286A</p> 
6	絕緣電阻 IR	10MΩ(Min)	<p>測試設備: TH2681 Test Equipment: TH2681 測試時間: 60秒 Duration: 60S 測試電壓: 50V Measurement voltage: 50V</p> 

■ 可靠性測試 Reliability Test

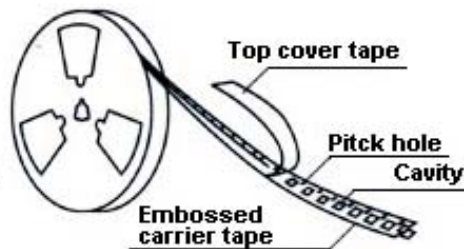
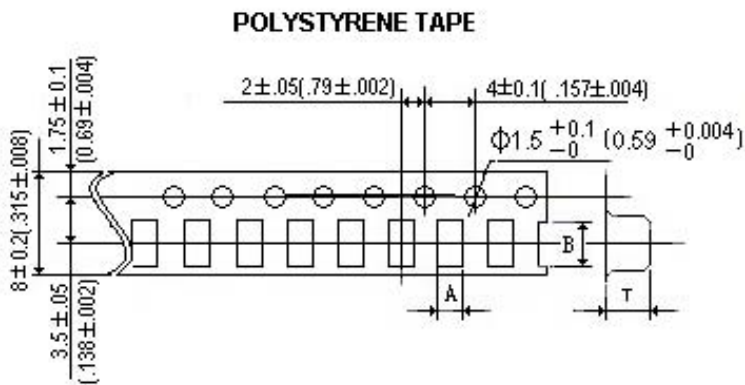
序號 NO.	項目 Item	詳細說明Specified value	試驗方法Test methods
		0805、1206	
1	可焊性 Solderability	至少90%端電極表面被焊錫覆蓋 At least 90% of terminal electrode is covered by new solder	焊接溫度：: 245±5℃ Solder temp.: 245±5℃ 浸入時間：5±1秒 Duration:5±1S
2	耐焊性 Resistance to soldering	外觀不發生變化; Appearance:No Damage ; 阻抗變化不超過 ±20%。 Impedance:within 20% of initial value.	焊接溫度：: 260±5℃ Solder temp.: 260±5℃ 浸入時間：10±1秒 Duration:10±1S
3	溫度循環 Thermal shock	外觀不發生變化; Appearance:No Damage ; 阻抗變化不超過 ±20%。 Impedance:within 20% of initial value.	溫度：-40℃，60±2分鐘 +85℃，60±2分鐘 emperature:-40℃ for 60±2min +85℃ for 60±2min 循環次數：10 Number of cycles:10 
4	高溫 High Temperature storage	外觀不發生變化; Appearance:No Damage ; 阻抗變化不超過 ±20%。 Impedance:within 20% of initial value.	溫度：+85℃±2℃ Temperature:+85℃±2℃ 時間：96±2小時 Time: 96±2h
5	低溫 Low Temperature storage	外觀不發生變化; Appearance:No Damage ; 阻抗變化不超過 ±20%。 Impedance:within 20% of initial value.	溫度：-55℃±2℃ Temperature:-55℃±2℃ 時間：96±2小時 Time: 96±2h
6	恒定濕熱 Damp heat (steady state)	外觀不發生變化; Appearance:No Damage ; 阻抗變化不超過 ±20%。 Impedance:within 20% of initial value.	濕度：90~95% RH Humidity:90 to 95% RH 溫度：50±2℃ Temperature:50±2℃ 測試時間：100±2小時 Duration: 100±2h
7	振動 Vibration	外觀不發生變化; Appearance:No Damage ; 阻抗變化不超過 ±20%。 Impedance:within 20% of initial value.	頻率：10~55~10Hz Frequency : 10 to 55 to 10Hz 振幅：1.5mm Amplitude:1.5mm X、Y、Z方向的時間： 每方向1小時45分鐘 Directions:1 hours 45minutes each in X,Y,Z direction.
8	端電極強度 Terminal Strength (Pull of Test)	0805系列≥0.5千克; 1206系列≥1.0千克; 0805 series≥0.5Kg; 1206 series≥1.0Kg.	

■ 可靠性測試 Reliability Test

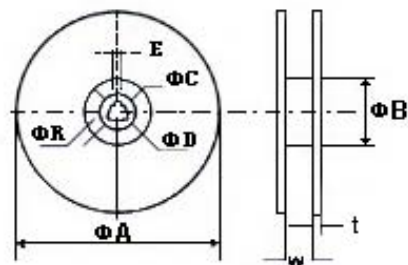
序號 NO.	項目 Item	詳細說明Specified value	試驗方法Test methods
		0805、1206	
9	跌落 Drop	外觀不發生變化; Appearance:No Damage ; 阻抗變化不超過 ± 20%。 Impedance:within 20% of initial value.	從高度為1米的空中自由落到混凝土地板重復10次。 Dropped 10 times on a concrete floor from a height of 1m.
10	抗彎強度 Flextrue strength	外觀不發生變化; Appearance:No Damage ; 阻抗變化不超過 ± 20%。 Impedance:within 20% of initial value.	Flexure:20mm Test board:Glass -Epoxy board Thickness:0.8mm 
11	過載 Over Loading	外觀不發生變化; Appearance:No Damage ; 電感無開路。 Inductors shall not have a open winding.	施加2倍額定電流，電流誤差為 ± 2%，保持5分鐘。 Provide 2 times the rated current of direct current between inductor terminals, Direct current error 5%, and for 5 minutes.
12	壽命 Life	外觀不發生變化; Appearance:No Damage ; 阻抗變化不超過 ± 20%。 Impedance:within 20% of initial value.	溫度: 85 ± 2℃ Temperature:85 ± 2℃ 測試時間: 1000小時 Duration: 1000h 施加額定電流 Applied current: Rated current.

■ 包裝 Packaging Style

● 載帶 Tape



Reel Dimensions



Unit(mm)

型號 Type	A	B	T
0805	1.50	2.25	1.40
1206	1.90	3.55	2.10

Unit(mm)

ΦA	ΦB	ΦC	ΦD	E	W	t	R
178	60	13	21	2	10	2	1

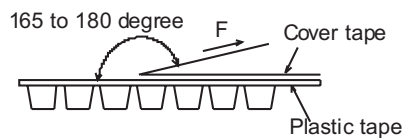
● 剝離力 Peeling off force

要求 Pull strength

0805~1206 : 20g ~80g

蓋帶剝離速度 Speed of peeling off;

300mm/min ± 10%



● 包裝數量

Packaging Quantity

規格 Dimension	0805	1206
每卷數量 Per Reel (pcs)	3000	2000
每盒數量 Per Box (pcs)	15000	10000