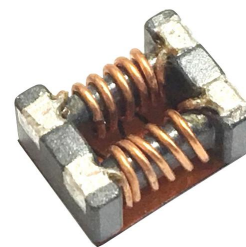


WIRE WOUND POWER COMMON MODE CHOKE COIL

绕线式功率共模滤波器



PPCM SERIES



深圳嘉嵘伟业电子有限公司

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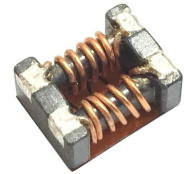
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Wire Wound Power Common Mode Choke Coil -PPCM Series

绕线式功率共模滤波器-PPCM 系列



INTRODUCTION AND CHARACTERISTICS 产品介绍及特性

INTRODUCTION

◆ The PPCM series is effective for common mode noise suppression in differential signal. A full series of common mode choke is designed for excellent noise attenuation with compact sizing for use in wide range of applications. Smaller DC resistance and larger rate current than PWCM series.

产品介绍

◆ PPCM 系列能有效的抑制差分型号上的高频共模杂讯。绕线共模由于其优秀的衰减噪音及小尺寸特点而得到广泛应用。相对于 PWCM 系列具有更小的直流电阻和更大的额定电流。

CHARACTERISTICS

- ◆ Excellent solderability and high heat resistance for reflow soldering or wave soldering
- ◆ Minature size, suitable for SMT
- ◆ With large coupling coefficient little impact on high-speed differential signal
- ◆ Prevention of common mode noise at high frequency

特性

- ◆ 良好的焊接性，适合于回流焊或波峰焊
- ◆ 体积小，适合高密度表面贴装
- ◆ 耦合系数大，对高速差分信号影响小
- ◆ 对高频共模噪声有很好的抑制

APPLICATIONS

- ◆ USB lines of PC, peripheral equipments
- ◆ LVDS lines of note PC, LCD
- ◆ Redialed noise suppression on digital product clock lines signal lines and suppression noise on circuit

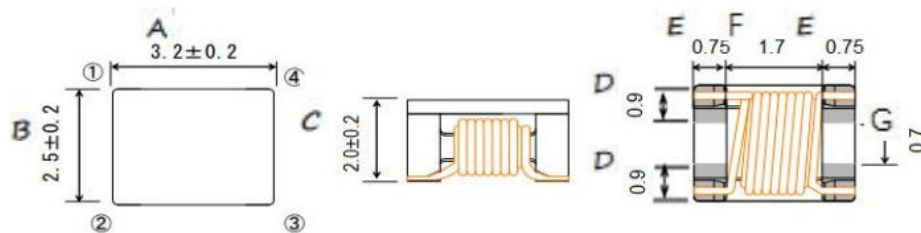
应用产品

- ◆ 电脑及外设 USB 线
- ◆ 笔记本电脑、LCD 的 LVDS 线
- ◆ 用于数据传输线、信号线。电源及回路部分的抗干扰

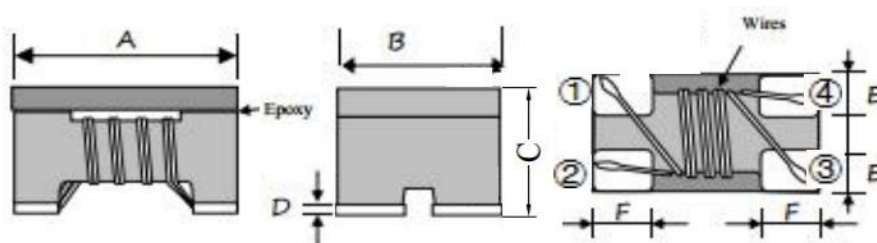
PRODUCT IDENTIFICATION 产品型号

PPCM 7060 F 272 T 2L
 ① ② ③ ④ ⑤ ⑥

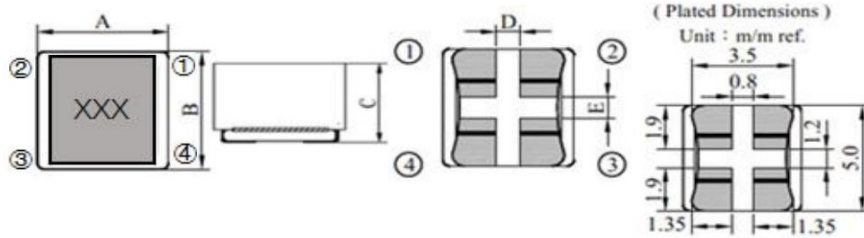
①Product Series Code 产品系列码	PPCM	Wire Wound Power Common Mode Choke Coil 绕线式功率共模滤波器
②Size Code 尺寸码	7060	长×宽 (A×B) (mm) 7.0×6.0
③Material Code 材质代号	F	材质代码
④Nominal Impedance 阻抗	272	2700 Ω
	701	700 Ω
⑤Packing 包装形式	T	Tape and Reel 编带
⑥Number of Lines 引线数	2L	2 线

SHAPE AND DIMENSIONS 外观尺寸
RECOMMENDED LAND PATTERN 推荐的焊盘尺寸


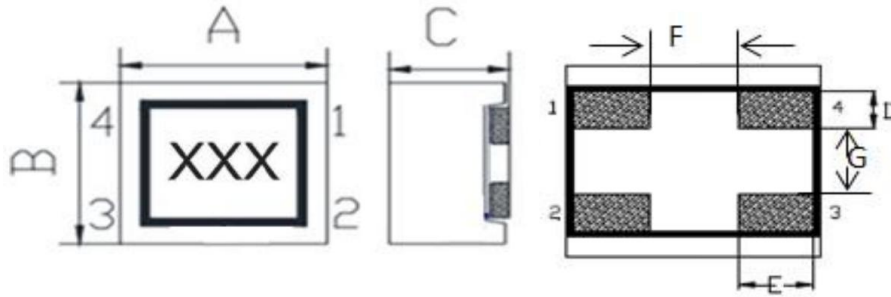
SIZE 尺寸	A	B	C	D	E	F	G
3225	3.2 ± 0.2	2.5 ± 0.2	2.0 ± 0.2	0.9 Typ.	0.75 Typ.	1.7 Typ.	0.7 Typ.



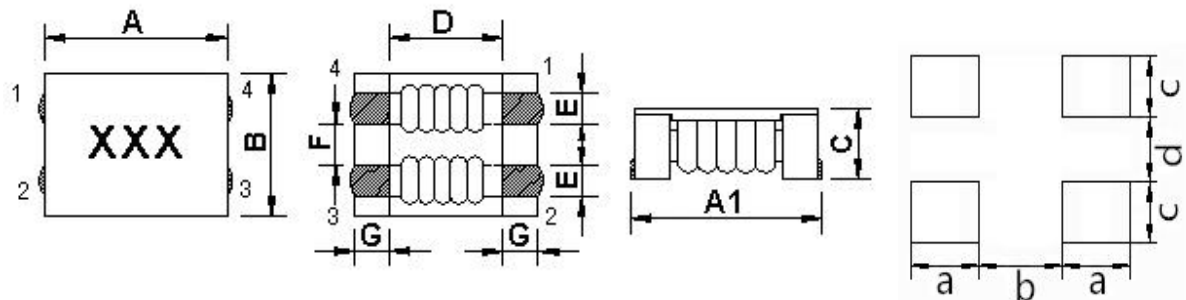
SIZE 尺寸	A	B	C	D	E	F	G
4532	4.5 ± 0.2	3.2 ± 0.2	2.8 ± 0.2	0.2 ± 0.1	1.2 Typ.	1.0 Typ.	--



SIZE 尺寸	A	B	C	D	E	F	G
5020	4.8±0.2	5.0±0.2	2.5 Max.	0.8 Typ.	1.0 Typ.	--	--
5040	4.8±0.2	5.0±0.2	4.5 Max.	0.8 Typ.	1.0 Typ.	--	--



SIZE 尺寸	A	B	C	D	E	F	G
5045	5.0±0.3	4.5±0.3	2.8±0.3	1.0 Typ.	1.65 Typ.	1.2±0.3	1.2±0.3

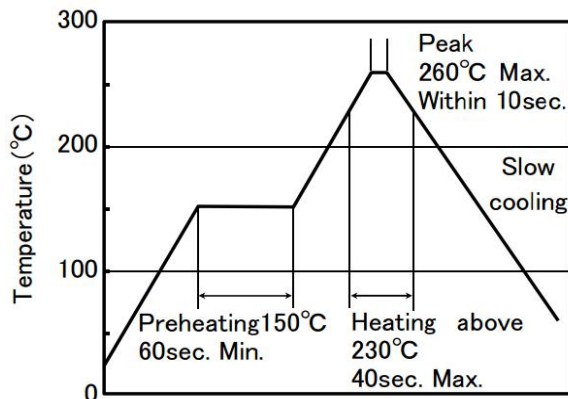


Unit:mm

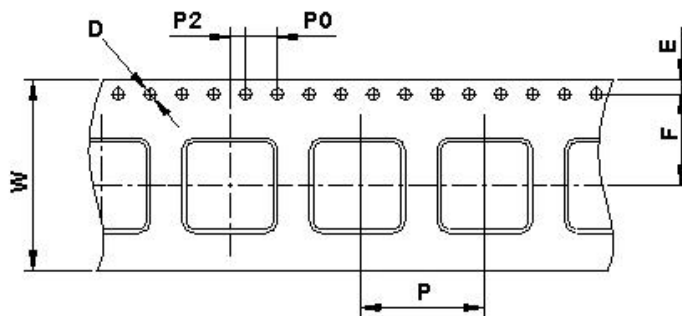
SIZE 尺寸	A	A1	B	C Max.	D Typ.	E	F	G	a Typ.	b Typ.	c Typ.	d Typ.
7060	7.0±0.5	7.5±0.5	6.0±0.5	3.8	3.5	1.5±0.2	1.5±0.2	1.75±0.2	2.2	2.5	1.5	1.5
9070	9.0±0.5	9.5±0.5	7.0±0.5	4.8	5.6	1.5±0.2	2.0±0.2	1.7±0.2	3.0	5.0	1.75	1.5
1211	12.0±0.5	12.5±0.5	10.8±0.5	6.4	7.0	2.7±0.2	2.5±0.2	2.5±0.2	3.6	6.6	3.2	2.1
1513	15.0±0.5	15.5±0.5	13.0±0.5	6.0	9.0	2.7±0.4	3.8±0.4	3.0±0.4	3.5	8.7	3.0	3.2

STORAGE AND OPERATING CONDITIONS 储存及操作条件

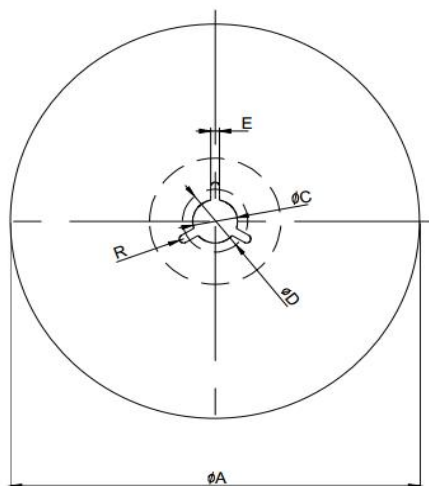
Operating Temperature Range	-40℃~+125℃
Storage Temperature and Humidity Range	-10℃~+40℃,70%RH max.

RECOMMENDED SOLDERING CONDITION 建议焊锡方式
REFLOW SOLDERING 回流焊


- ① Ceramic chip components should be preheated to within 100 to 130°C of the soldering.
- ② Assured to be reflow soldering for 2 times.

PACKING STANDARD 包装标准
◆ Embossed Tape


Type	Chip Thickness	W	D	E	F	P	P0	P2	Quantity (pcs/reel)
									Quantity (pcs/reel)
									Ø330mm
PPCM7060	3.8	16	1.5	1.75	7.5	12	4	2	1500
PPCM9070	4.8	24	1.5	1.75	11.5	16	4	2.02	700
PPCM1211	6.4	24	1.5	1.75	11.5	16	4	2	500
PPCM1513	6.0	24	1.5	1.75	11.5	10	4	2	450

◆ Reel Dimensions


Symbol	Ø178mm Reel	Ø330mm Reel
A	Ø178±2	Ø330±2
B	Ø60±2	Ø100±2
C	Ø13±0.8	Ø13±0.8
D	Ø21±0.8	Ø21±0.8
E	2	2
W8	10±1.5	10±1.5
W12	14.5±1.5	14.5±1.5
W16	--	17.4(Typ.)
W24	--	24.4(Typ.)
T	2±0.5	2±0.5
R	1	1

SPECIFICATIONS 规格特性
PPCM3225(1210) TYPE

Part Number 型号	Impedance 阻抗 Z		Insulation resistance 绝缘阻抗 IR	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Rated Voltage 额定电压 Vdc	Test Frequency 测试频率
	Min.	Typ.					
Units 单位			Ω	Ω	mA	Volts	MHz/V
PPCM3225F102T2L	--	1000	10M	0.22	1500	50	100/0.2

PPCM4532(1812) TYPE

Part Number 型号	Impedance 阻抗 Z		Insulation resistance 绝缘阻抗 IR	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Rated Voltage 额定电压 Vdc	Test Frequency 测试频率
	Min.	Typ.					
Units 单位			Ω	Ω	mA	Volts	MHz/V
PPCM4532F101T2L	--	100	10M	0.25	2000	50	100/0.2
PPCM4532F251T2L	--	250	10M	0.25	1500	50	100/0.2
PPCM4532F601T2L	--	600	10M	0.25	1000	50	100/0.2
PPCM4532F102T2L	--	1000	10M	0.30	800	50	100/0.2

PPCM5020(2008) TYPE

Part Number 型号	Impedance 阻抗 Z		Insulation resistance 绝缘阻抗 IR	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Rated Voltage 额定电压 Vdc	Test Frequency 测试频率
	Min.	Typ.					
Units 单位			Ω	Ω	mA	Volts	MHz/V
PPCM5020F101T2L	--	100	10M	0.009	6000	50	100/0.2
PPCM5020F251T2L	--	250	10M	0.014	5000	50	100/0.2
PPCM5020F501T2L	--	500	10M	0.019	4000	50	100/0.2
PPCM5020F102T2L	--	1000	10M	0.024	2000	50	100/0.2
PPCM5020F142T2L	--	1400	10M	0.04	1500	50	100/0.2
PPCM5020F152T2L	--	1500	10M	0.04	1500	50	100/0.2

PPCM5040(2016) TYPE

Part Number 型号	Impedance 阻抗 Z		Insulation resistance 绝缘阻抗 IR	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Rated Voltage 额定电压 Vdc	Test Frequency 测试频率
	Min.	Typ.					
Units 单位			Ω	Ω	mA	Volts	MHz/V
PPCM5040F191T2L	--	190	10M	0.02	5000	50	100/0.2
PPCM5040F351T2L	--	350	10M	0.04	2000	50	100/0.2
PPCM5040F102T2L	--	1000	10M	0.06	1500	50	100/0.2
PPCM5040F152T2L	--	1500	10M	0.10	1000	50	100/0.2
PPCM5040F302T2L	--	3000	10M	0.20	500	50	100/0.2
PPCM5040F402T2L	--	4000	10M	0.30	200	50	100/0.2

SPECIFICATIONS 规格特性
PPCM5045(2018) TYPE

Part Number 型号	Impedance 阻抗 Z		Insulation resistance 绝缘阻抗 IR	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Rated Voltage 额定电压 Vdc	Test Frequency 测试频率
	Min.	Typ.					
Units 单位			Ω	Ω	mA	Volts	MHz/V
PPCM5045F101T2L	--	100	10M	0009±40%	6000	50	100/0.2
PPCM5045F251T2L	--	250	10M	0.014±40%	5000	50	100/0.2
PPCM5045F351T2L	--	350	10M	0.040 Max.	2000	50	100/0.2
PPCM5045F501T2L	--	500	10M	0.019±40%	2000	50	100/0.2
PPCM5045F102T2L	--	1000	10M	0.024±40%	2000	50	100/0.2
PPCM5045F142T2L	--	1400	10M	0.040±40%	2000	50	100/0.2
PPCM5045F152T2L	--	1500	10M	0.1 Max.	1000	50	100/0.2
PPCM5045F302T2L	--	3000	10M	0.1 Max.	1000	50	100/0.2

PPCM 7060(2824) TYPE

Part Number 型号	Impedance 阻抗 Z		Insulation resistance 绝缘阻抗 IR	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Rated Voltage 额定电压 Vdc	Test Frequency 测试频率
	Min.	Typ.					
Units 单位			Ω	Ω	mA	Volts	MHz/V
PPCM7060F700T2L	40	70	10M	0.005	15000	50	100/0.2
PPCM7060F141T2L	100	140	10M	0.010	9000	50	100/0.2
PPCM7060F301T2L	225	300	10M	0.010	5000	50	100/0.2
PPCM7060F501T2L	275	500	10M	0.010	5000	50	100/0.2
PPCM7060F601T2L	500	600	10M	0.015	4000	50	100/0.2
PPCM7060F701T2L	600	700	10M	0.015	4000	50	100/0.2
PPCM7060F102T2L	800	1020	10M	0.017	3000	50	100/0.2
PPCM7060F132T2L	910	1300	10M	0.021	2500	50	100/0.2
PPCM7060F272T2L	2000	2700	10M	0.063	1000	50	100/0.2
PPCM7060F302T2L	2500	3000	10M	0.075	900	50	100/0.2

PPCM9070(3628) TYPE

Part Number 型号	Impedance 阻抗 Z		Insulation resistance 绝缘阻抗 IR	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Rated Voltage 额定电压 Vdc	Test Frequency 测试频率
	Min.	Typ.					
Units 单位			Ω	Ω	mA	Volts	MHz/V
PPCM9070F301T2L	225	300	10M	0.006	6000	50	100/0.2
PPCM9070F601T2L	450	600	10M	0.008	5500	50	100/0.2
PPCM9070F701T2L	500	700	10M	0.010	5000	50	100/0.2
PPCM9070F102T2L	750	1000	10M	0.013	4000	50	100/0.2
PPCM9070F222T2L	1700	2200	10M	0.060	2500	50	100/0.2
PPCM9070F272T2L	2000	2700	10M	0.065	2000	50	100/0.2
PPCM9070F302T2L	2500	3000	10M	0.070	3000	50	100/0.2

SPECIFICATIONS 规格特性
PPCM 1211(4844) TYPE

Part Number 型号	Impedance 阻抗 Z		Insulation resistance 绝缘阻抗 IR	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Rated Voltage 额定电压 Vdc	Test Frequency 测试频率
	Min.	Typ.					
Units 单位			Ω	Ω	mA	Volts	MHz/V
PPCM1211F231T2L	80	230	10M	0.002	10000	50	100/0.2
PPCM1211F701T2L	500	700	10M	0.006	8000	50	100/0.2
PPCM1211F801T2L	600	800	10M	0.008	8000	50	100/0.2
PPCM1211F102T2L	750	1000	10M	0.014	6000	50	100/0.2
PPCM1211F252T2L	2200	2500	10M	0.035	1800	50	100/0.2
PPCM1211F272T2L	2300	2700	10M	0.050	1500	50	100/0.2

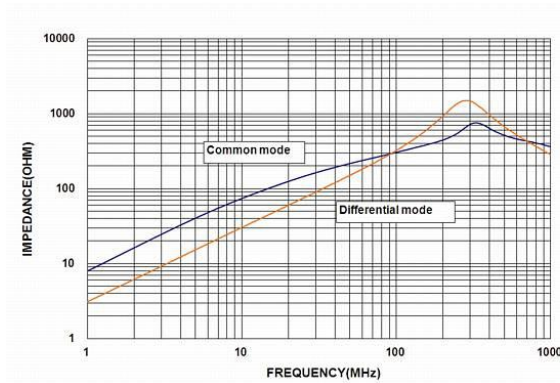
PPCM 1513(6052) TYPE

Part Number 型号	Impedance At 100MHz 阻抗 Z		Insulation resistance 绝缘阻抗 IR	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Rated Voltage 额定电压 Vdc	Test Frequency 测试频率
	Min.	Typ.					
Units 单位			Ω	Ω	mA	Volts	MHz/V
PPCM1513F301T2L	250	300	10M	0.005	13000	50	100/0.2
PPCM1513F551T2L	450	550	10M	0.006	12000	50	100/0.2
PPCM1513F801T2L	600	800	10M	0.007	11000	50	100/0.2
PPCM1513F102T2L	800	1000	10M	0.012	10000	50	100/0.2

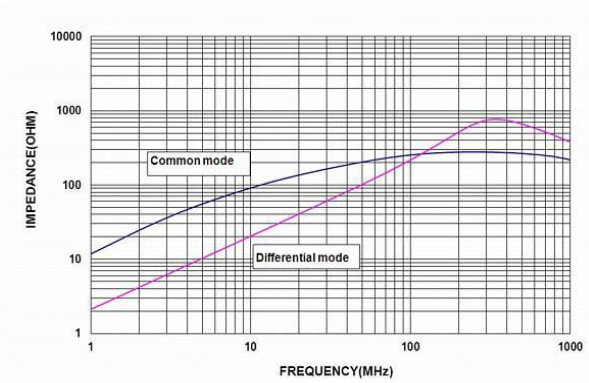
TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

COMMON MODE & DIFFERENTIAL MODE vs. FREQUENCY

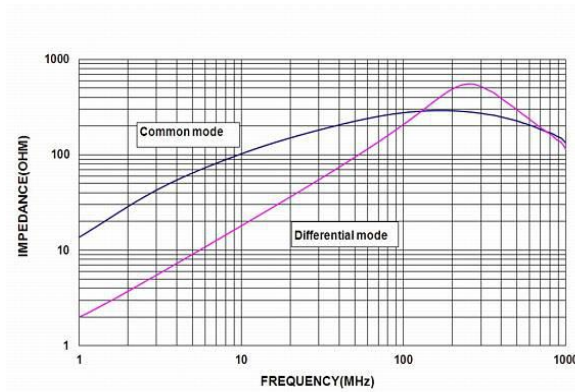
PPCM7060F301T2L



PPCM9070F301T2L



PPCM1211F231T2L



PPCM1513F301T2L

