

WIRE WOUND COMMON MODE INDUCTOR

绕线式共模电感



PICM SERIES



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Wire Wound Common Mode Inductor-PICM Series

绕线式共模电感-PICM 系列



INTRODUCTION AND CHARACTERISTICS 产品介绍及特性

INTRODUCTION	产品介绍
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|---|---|
| <p>◆ The PICM 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.</p> | <p>◆ PICM 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。</p> |
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CHARACTERISTICS	特性
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|--|----------------------------|
| <p>◆ Excellent solderability and high heat resistance for reflow soldering or wave soldering</p> | <p>◆ 良好的焊接性，适合于回流焊或波峰焊</p> |
| <p>◆ Minature size, suitable for SMT</p> | <p>◆ 体积小，适合高密度表面贴装</p> |
| <p>◆ With large coupling coefficient little impact on high-speed differential signal</p> | <p>◆ 耦合系数大，对高速差分信号影响小</p> |
| <p>◆ Prevention of common mode noise at high frequency</p> | <p>◆ 对高频共模噪声有很好的抑制</p> |

APPLICATIONS	应用产品
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|--|----------------------------------|
| <p>◆ USB lines of PC, peripheral equipments</p> | <p>◆ 电脑及外设 USB 线</p> |
| <p>◆ LVDS lines of note PC, LCD</p> | <p>◆ 笔记本电脑、LCD 的 LVDS 线</p> |
| <p>◆ Redialed noise suppression on digital product clock lines signal lines and suppression noise on circuit</p> | <p>◆ 用于数据传输线、信号线。电源及回路部分的抗干扰</p> |

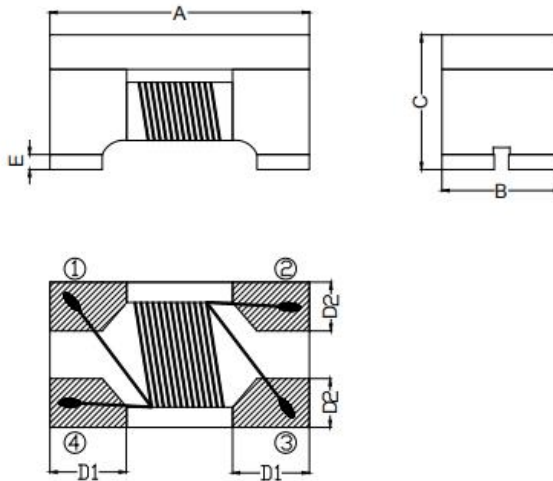
PRODUCT IDENTIFICATION 产品型号

PICM **3225** **N** **220** **T** **2L**
 ① ② ③ ④ ⑤ ⑥

①Product Series Code 产品系列码	PICM	Wire Wound Common Mode Inductor 绕线式共模电感
②Size Code 尺寸码	3225	长×宽 (L×W) (mm) 3.2×2.5
③Material Code 材质代号	N	材质代码
④Inductance Value Code 感量值	220	22uH
	101	100uH
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



Unit:mm

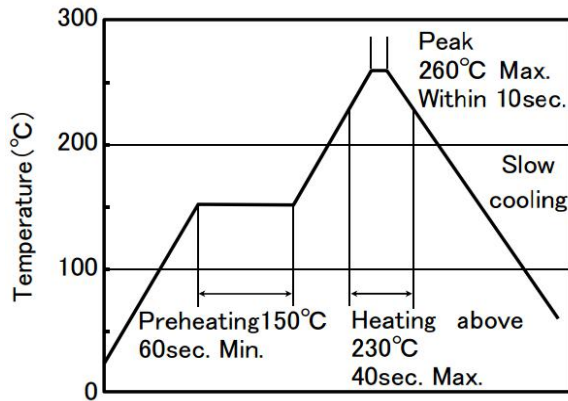
SIZE 尺寸	A	B	C	E	D1	D2
3216(1206)	3.4±0.2	1.6±0.2	2.0±0.2	0.66±0.1	0.64±0.1	0.66±0.1
3532(1412)	3.5±0.2	3.2±0.2	2.3±0.2	1.18±0.1	0.63±0.1	1.18±0.1
3225(1210)	3.2±0.2	2.5±0.2	2.5 Max.	0.9±0.1	0.7±0.1	0.9±0.1
4532(1812)	4.5±0.2	3.2±0.2	2.8±0.2	0.9±0.3	1.0±0.3	0.9±0.3

STORAGE AND OPERATING CONDITIONS 储存及操作条件

Operating Temperature Range	-40℃~+85℃
Storage Temperature and Humidity Range	-10℃~+40℃, 70%RH max.

RECOMMENDED SOLDERING CONDITION 建议焊锡方式

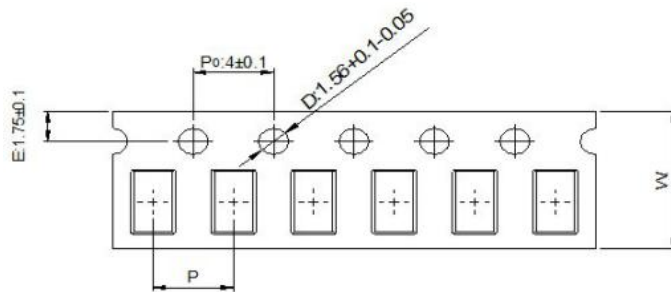
REFLOW SOLDERING 回流焊



- 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.

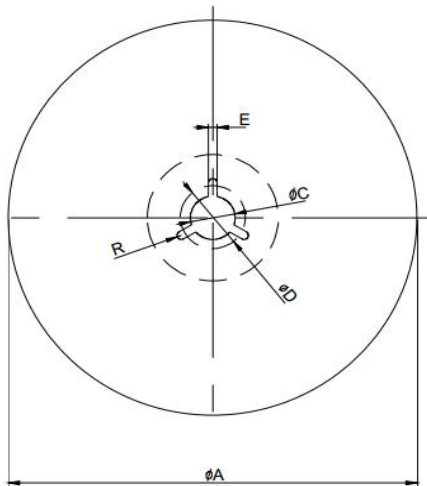
PACKING STANDARD 包装标准

◆ Embossed Tape



Type	Chip Thickness	W	P	Reel	Quantity (pcs)
	(mm)				
PICM3216	2.0	8.0	4	Ø178	2000
PICM3532	2.3	12.0	8	Ø330	2000
PICM3225	2.5	8.0	4	Ø178	2000
PICM4532	2.8	12.0	8	Ø178	500

◆ 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
PICM 3216(1206) TYPE

Part Number 型号	Inductance At 100KHz /0.1V 电感量 L	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	Withstand Voltage 耐电压 Vdc
Units 单位	uH Min.	Ω	Ω	mA	Volts	Volts Max.
PICM3216N600T2L	60	10M	1.7	200	50	125

PICM 3532(1412) TYPE

Part Number 型号	Inductance At 100KHz /0.1V 电感量 L	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	Withstand Voltage 耐电压 Vdc
Units 单位	uH Min.	Ω	Ω	mA	Volts	Volts Max.
PICM3532N750T2L	75	10M	0.8	300	50	125

PICM 3225(1210) TYPE

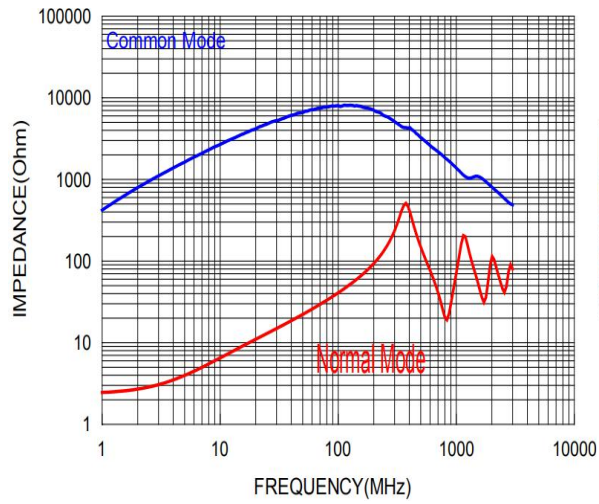
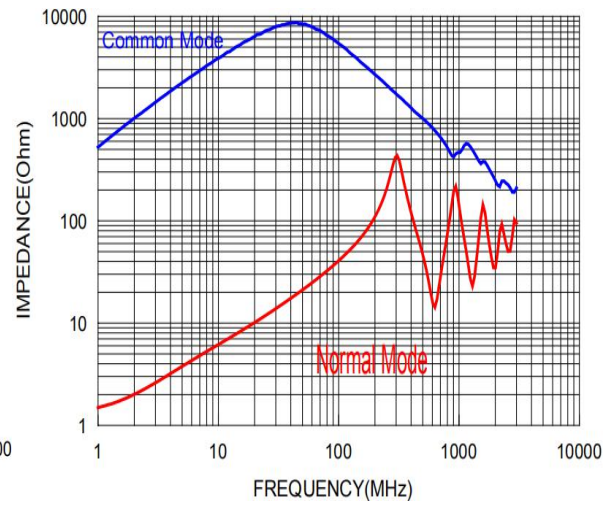
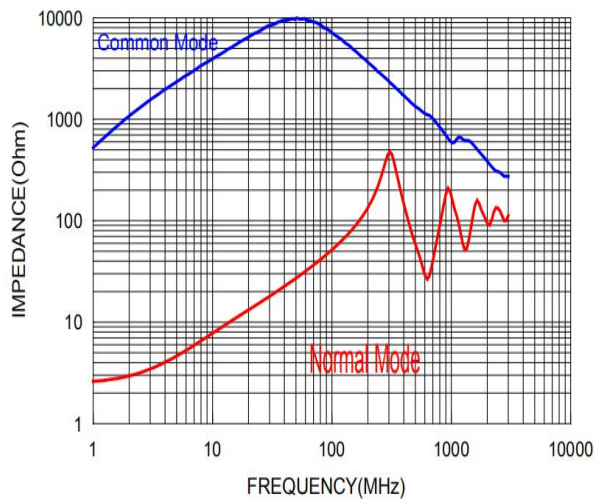
Part Number 型号	Inductance At 100KHz 电感量 L	Common mode Impedance At 10MHz 共模阻抗 Z		Insulation resistance 绝缘阻抗 IR	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Rated Voltage 额定电压 Vdc
Units 单位	uH+50/-30%	Ω Min.	Ω Typ.	Ω	Ω	mA	Volts
PICM3225N110T2L	11	300	550	10M	0.4	300	80
PICM3225N220T2L	22	500	1100	10M	0.5	250	80
PICM3225N510T2L	51	1000	2600	10M	0.7	200	80
PICM3225N101T2L	100	2200	5100	10M	1.5	150	80
PICM3225N201T2L	200	-	-	10M	5.5	70	80

PICM 4532(1812) TYPE

Part Number 型号	Inductance At 100KHz 电感量 L	Common mode Impedance At 10MHz 共模阻抗 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
Units 单位	uH+50/-30%	Ω Min.	Ω Typ.	Ω	Ω	mA	Volts
PICM4532N110T2L	11	300	600	10M	0.6	250	50
PICM4532N220T2L	22	500	1200	10M	1	200	50
PICM4532N510T2L	51	1000	2800	10M	1	200	50
PICM4532N101T2L	100	2000	5800	10M	2	150	50
PICM4532N201T2L	200	-	-	10M	4.5	100	50

TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

COMMON MODE & DIFFERENTIAL MODE vs. FREQUENCY

PICM3216N600T2L

PICM3532N750T2L

PICM3225N101T2L

PICM4532N201T2L
