

ITEM P/N	PCAQ1211F-701	TEST INSTRUMENT	HP4291B / 4339B
PRODUCT	COMMON MODE CHOCK	TEST FREQUENCY	100MHz / 0.1V

**CUSTOMER :****CUSTOMER P/N :****DESCRIPTION :** COMMON MODE CHOCK**P/N :** PCAQ1211F-701**REVISION NO. :** Version:1.0**DATE :** 2018-11-7**NOTES :** STANDARD

DOCUMENTED	
APPROVED	Yuki
CHECKED	Ben
PREPARED	Peter

**CUSTOMER APPROVAL**

company seals



PROD TECHNOLOGY CO., LTD.

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NO.28 ho-cheng RD, bade city, taoyuan,  
taiwan

Version:1.0

# SPECIFICATION FOR APPROVAL

RoHS  
COMPLIANT

<b>ITEM P/N</b>	<b>PCAQ1211F-701</b>	<b>TEST INSTRUMENT</b>	<b>HP4291B / 4339B</b>
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Version	REVISION ITEM	BEFORE REVISION	AFTER REVISION	DATE
1.0	First Version			2018-11-7

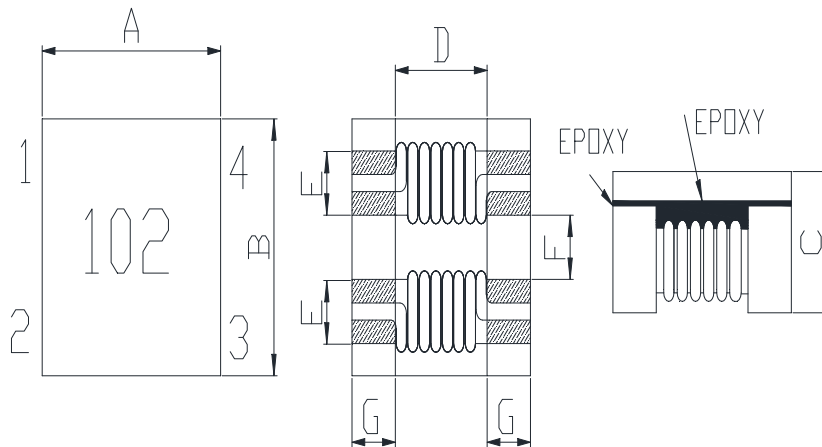


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**PACKING DIMENSIONS (mm)**

1211F	Dimensions
A	12.0 ± 0.5
B	10.8 ± 0.5
C	6.40Max.
D	7.0 Typ.
E	2.7 ± 0.2
F	2.5 ± 0.2
G	2.5 ± 0.2

**EXPLANATION OF PART NUMBERS**

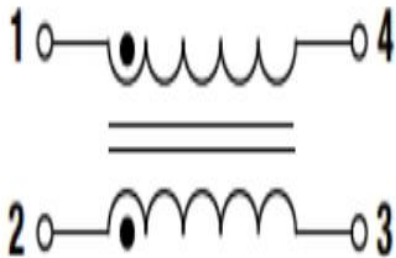
<b>PCAQ</b>	<b>1211F</b>	-	<b>701</b>
<u>Serial Codes</u>	<u>Size</u>		<u>Impedance Code</u>

**ELECTRICAL CHARACTERISTICS**

ITEM P/N	@ 25 °C Ambient Temperature					
	Z (Ω)		RDC(mΩ)	Rated Current (A)	IR (MΩ)	Rated Voltage (V)
	Min	Typ	Max	max	Min	Max
PCAQ1211 F-701	500	700	6	8	10	125

- ⊙ All test Data is referenced to 25°C ambient
- ⊙ Operation Temperature Range : -30°C ~ 100°C
- ⊙ The Part temperature (ambient + ΔT) should not exceed 100°C under worst case operating conditions.
- ⊙ Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all effect the part temperature. Part temperature should be verified in the end application.

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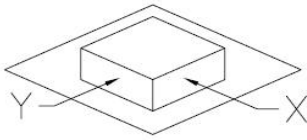
**CIRCUIT DIAGRAM****MATERIAL LIST**

NO.	ITEM	DESCRIPTION	SUPPLIER
1	CORE	FERRITE	SINCORES OR EQ
2	WIRE	2UEW P180	ELEKTRISOLA OR EQ
3	BASE	LCP	LIANGCHENG OR EQ
4	SOLDER	Sn Cu	SHENMAO OR EQ
5	EPOXY	FK-661	PENGNO OR EQ
6	INK	白色	BON MARK

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**RELIABILITY TESTING**

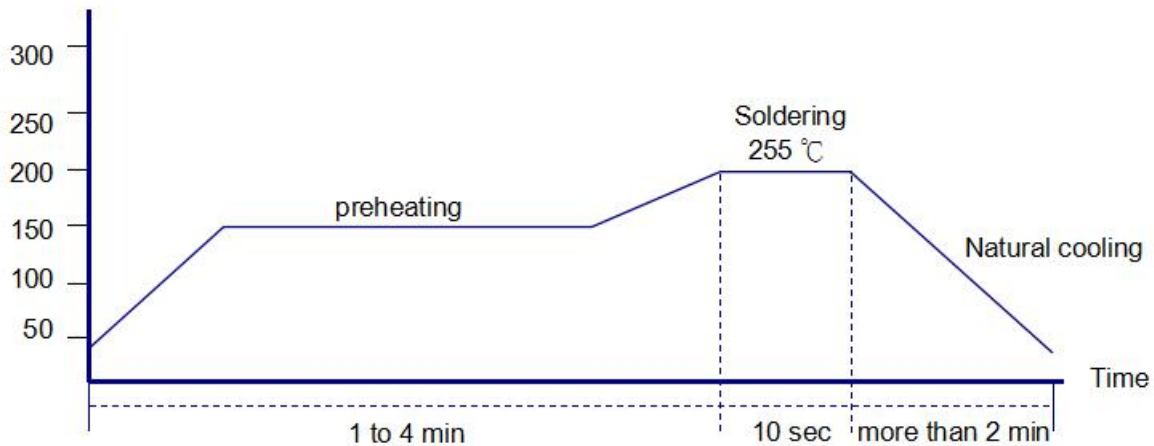
Operating Temperature	- 30 to + 100 °C ( Contain Heating coil )
Appearance Inspection	No external defects by visual inspection
Terminal Strength	After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 10N(1.02kg) for10+/-2 sec. Terminal should not peel off. ( Refer to figure at right )
Heat endurance of reflow soldering	Refer to figure
Insulating resistance	Over 100 MΩ at 100V D.C . between wire and core .
Dielectric Strength	Apply at 0.5KV 3mA for 1 minute between wire and core .
Temperature characteristics	Inductance coefficient ( 0~2,000 ) × 10 / °C ( - 30 ~ + 100 °C )
Humidity characteristics	Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 °C and 1 hours drying under normal condition .



A test is made under the above mentioned condition , and it is kept for 2 hours in the normal

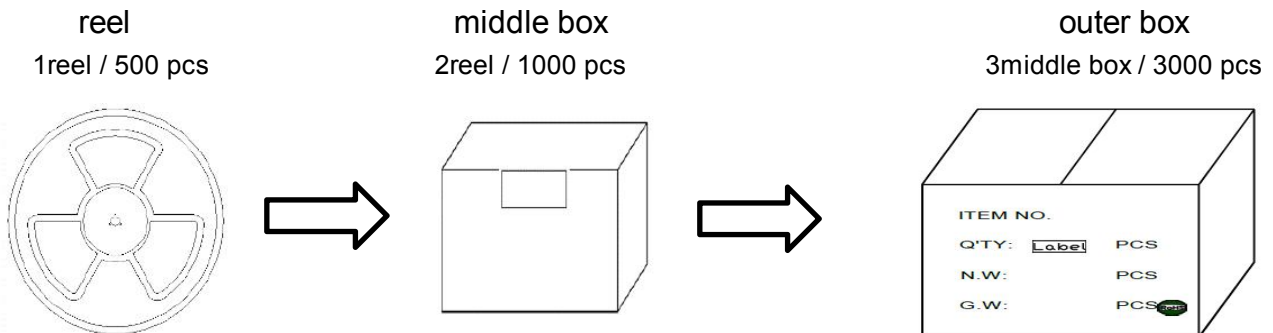
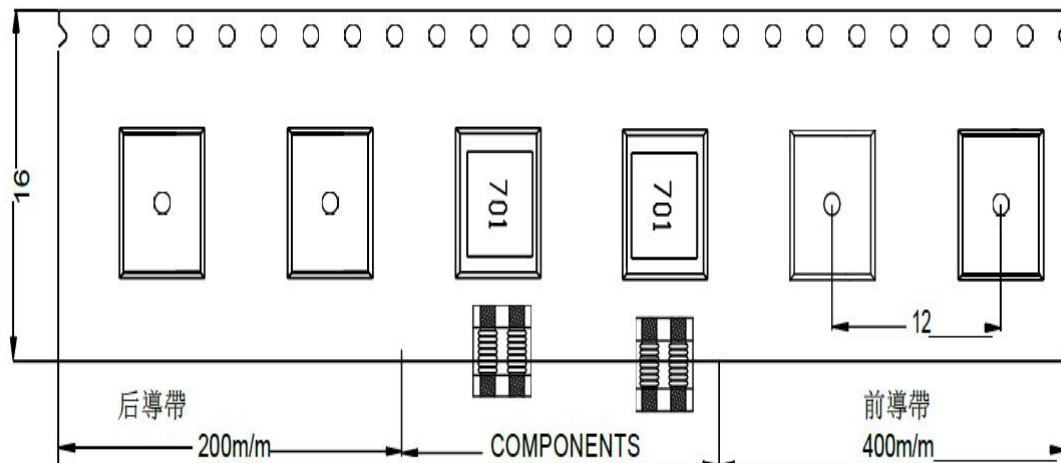
**IR Reflow profile**

Temperature °C



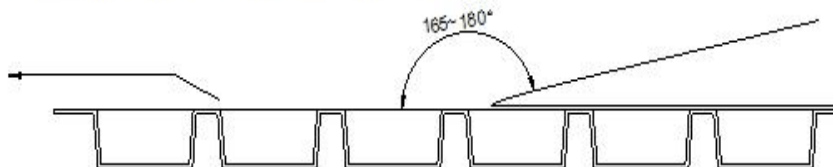
Temperature and humidity . After that , no mechanical and electrical defect should be found .

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**CARRIERTAPEING REEL & CARRIER MATERIALS (PAPER PLASTICS) UNIT : (mm)**

*Adhesive strength of cover tape is 20 to 120 gf*

*The conduction band direction*





# ANNOUNCEMENTS

## 产品注意事项

使用本产品时，请注意以下事项

- ◎ 产品保存期限为12个月，保存条件：温度5~40℃，湿度10~80%RH以内，超过保存期限可能会使产品端子电极发生氧化。
- ◎ 请勿在极端环境下使用和保存（高盐，强酸，强碱，强辐射等）。
- ◎ 产品焊接前，请进行预热；预热温度与焊接温度之间温差建议控制在150℃以内。
- ◎ 产品焊接后需重新拆卸焊接修正时，请遵循规格书规定的条件范围；过高的加热温度以及反复的拆卸可能会导致产品失效。
- ◎ 产品焊接到线路板后，请注意不可因线路板整体变形或局部变形而施加给电感剩余应力，这可能会导致电感发生破裂，脱落，以致失效。
- ◎ 产品请勿接触清洗剂，酒精等液体，这会侵蚀产品本体，从而导致产品失效。
- ◎ 产品通电后温度会随电流的增大而上升，设计时请务必考虑留有余量。
- ◎ 过高的静电会对产品产生永久性损害，请注意静电防护。
- ◎ 产品通电过程请勿触摸产品任何部位，防止触电。
- ◎ 本产品作为磁性产品，设计时请务必考虑周边元器件与本产品可能产生的相互影响。
- ◎ 本产品适用于一般电子设备，如：AV设备，通信设备，家电产品，娱乐设备，计算机设备，个人设备，办公设备，计测设备，工业机器人等。且该一般电子设备需在常规的操作和使用方法环境下使用。对于需要高度安全性和可靠性的，或者因本产品失效造成设备故障，误操作，运转不良等危及到人的生命身体及财产安全，以及对社会产生较大不良影响的特殊用途，设计使用前务必同本公司沟通，设计使用者如在未取得我司书面同意状况下使用造成任何后果，我司不予承担。特殊用途包含但不限于如下清单：

- |                       |                  |
|-----------------------|------------------|
| 1 军用设备                | 8 关系到国防安全的设备     |
| 2 运输设备（汽车，轨道交通产品，船舶等） | 9 防灾赈灾设备         |
| 3 航空，航天设备             | 10 各种安规设备        |
| 4 发电控制设备              | 11 紧急救护设备        |
| 5 核动力相关设备             | 12 其他被认定为特殊用途的设备 |
| 6 爆炸引燃控制设备            |                  |
| 7 交通控制设备              |                  |

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