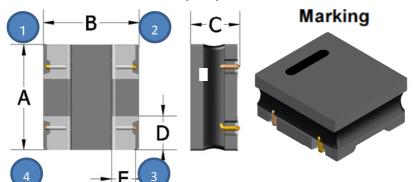
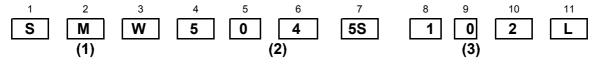


PACKING DIMENSIONS (mm)

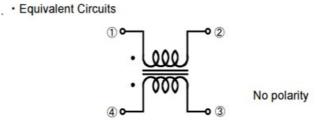


5045	Dimensions
Α	5.0 ± 0.3
В	4.5 ± 0.3
С	2.5 Max.
D	1.6± 0.3
Е	1.4 ± 0.3

EXPLANATION OF PART NUMBERS



- (1) Product name
- (2) Shapes and dimensio
- (3) Impedance **【** at 1001 101:100Ω



ELECTRICAL CHARACTERISTICS

	Z(Ω)	Rated	DCR (Ω)	Rated	Withstand	Insulation
P/N	Point1-Point2 point3-point4	current DCR (\OD)		Voltage	Voltage	Resistance
F/IN	Impedance	Idc(A) ±40%		Vdc	Vdc	IR
	at 100MHz	[Max]	± 4 0%	(V)Typical	(V)Typical	(MΩ)Min.
SMW5045S102LTT	1000 Typ.	3	0.024	50	125	10

Operating temperature : -40 to +85°C

Storage temp. and humidity: -40 to +85°C ,70%RH max

Typical Heat Rating DC Current would cause an approximately ${\scriptscriptstyle \triangle}T$ of 40°C

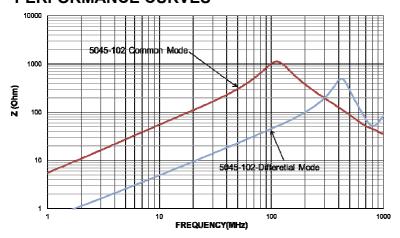
If Use Wave soldering is there will be some risk. Re-flow soldering temperatures below 240 degrees, there will be unwitting risk

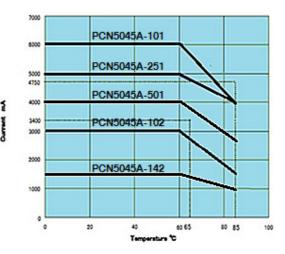
Solder standard according to IPC-A-610D 8.2.1 Chip Components - Bottom Only Terminations

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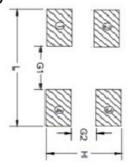
PERFORMANCE CURVES





Recommended Footprint(mm)

5045	Dimensions		
L	5.5 ref.		
Н	4.6 ref.		
G1	2.35 ref.		
G2	1.85 ref.		



Electrical Performance

No.	Item	Specifications	Test Method
1	Impedance (Z) (at 10MHz)	Meet item 3.	Measuring Equipment : 4291B or the equivalents. Measuring Frequency : 10MHz
2	Insulation Resistance (I.R.)		Measuring Equipment : 4339B or the equivalents. Test Voltage : 2times for Rated Voltage Time : within 60 s
3	DC Resistance (Rdc)		Measuring Current : 100 mA max. (In case of doubt in the above mentioned standard condition, measure by 4 terminal method.)
4	Withstanding Voltage	Products shall not be damaged.	Voltage : 125 V(DC) Time : 60 s Charge Current : 1 mA max.



Mechanical Performance

No.	Item	Specifications	Test Method
1	Appearance and Dimensions		Visual Inspection and measured with Slide Calipers.
2	Bonding Strength and Core Strength	No evidence of chipping,breakage. No evidence of coming off glass-epoxy substrate.	Applying Force (F): 10N Applying Time: 5 ± 1s Figure 10N Pressure jig Substrate Test board fixture
3	Body strength	No evidence of chipping,breakage.	Applying Force (F): 10N Applying Time: 5 ± 1s For Nozzle Test board fixture Substrate
4	Bending Strength	Meet Table 1. Table 1 Appearance No damaged. Impedance within ± 20% (at 10MHz) I.R. 10MΩ min. Withstanding Voltage No damaged.	Substrate : Glass-epoxy (t=1.6mm) Deflection : 2.0mm Keeping Time : 30 s Speed of Applying Force : 0.5 mm/s Pressure jig R34d F Deflection 45 Product (in mm)
5	Vibration	voltage	Products shall be soldered on the substrate. Oscillation Frequency: 10 to 55 to 10Hz for 1 min. Total Amplitude: 1.5mm Testing Time: A period of 2 hours in each of 3 mutually perpendicular directions(Total 6 hours).
6	Drop		Products shall be dropped concrete or steel board. Method: free fall Height: 1m The Number of Times: 10 Times
7	Solderability	The electrodes shall be at least 90% covered with new solder coating.	Flux: Ethanol solution of rosin,25(wt)% Pre heating: 150 ± 10°C, 1 minute. Solder: (1) Sn/Pb = 60/40 (2) Sn-3.0Ag-0.5Cu Solder Temperature: (1)230±5°C (2)245±5°C Immersion Time: 4 ± 1s Immersion and Immersion rates: 25mm/s Stainless tweezers Product
8	Resistance to Soldering heat	Meet Table 1.	Flux: Ethanol solution of rosin,25(wt)% Pre heating: 150 ± 10°C, 1 minute. Solder: Sn/Pb = 60/40 or Sn-3.0Ag-0.5Cu Solder Temperature: 270 ± 5°C Immersion Time: 5 ± 1s Immersion and Immersion rates: 25mm/s Then measured after exposure in the room condition for 4 to 48 hours.

Enviromental Performance

(Product shall be solderd on the glass-epoxy substrate (t=1.6mm)

No.	Item	Specifications	Test Method
1	Temperature Cycle	Meet Table 1.	1 cycle 1 step: -25 °C (+0, -3) °C / 30min (+ 3,- 0) min 2 step: Ordinary temp. / 3 min max. 3 step: +85 °C (+3, -0) °C / 30min (+ 3,- 0) min 4 step: Ordinary temp. / 3 min max. Total of 10 cycles Then measured after exposure in the room
2	Humidity		condition for 4 to 48 hours. Temperature: 40 ± 2 °C Humidity: 90 to 95 %(RH) Time: 1000 h (+48 h, -0 h) Then measured after exposure in the room condition for 4 to 48 hours.
3	Humidity Load		Temperature: 40 ± 2 °C Humidity: 90 to 95 %(RH) Test Voltage: Rated Voltage Time: 1000 h (+48 h, -0 h) Then measured after exposure in the room condition for 4 to 48 hours. (ref. Item)
4	Heat life		Temperature: 85 ± 2 °C Test Voltage: 2times for Rated Voltage Time: 1000 h (+48 h, -0 h) Then measured after exposure in the room condition for 4 to 48 hours. (ref. Item)
5	Cold Resistance		Temperature : - 40 ± 2 °C Time : 1000 h (+48 h , -0 h) Then measured after exposure in the room condition for 4 to 48 hours. (ref. Item)

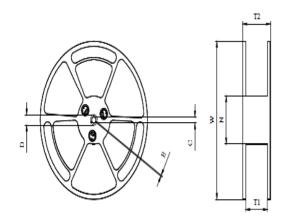
Terminal to be Tested

When measuring and suppling the voltage, the following terminal is applied.

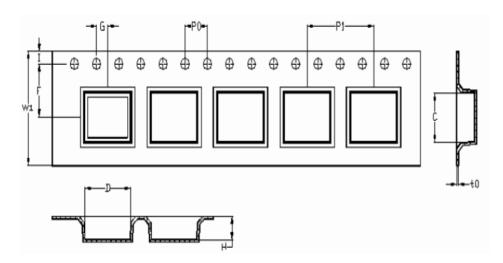
No.	Item	Terminal to be Tested
1	Impedance (Z)	
	(Measurement Terminal)	Terminal → O O Terminal
2	DC Resistance (Rdc)	·
	(Measurement Terminal)	ĨĨ
3	Insulation Resistance (I.R.)	
	(Measurement Terminal)	
4	Withstanding Voltage	Termina → • • • • • • • • • • • • • • • • • •
	(Measurement Terminal)	\ · \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
5	Humidity Load (Supply Terminal)	<u> </u>
6	Heat Life (Supply Terminal)	

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Reel Dimension & Tape Dimension



Туре	W(mm)	D(mm)	C(mm)	T1(mm)	N(mm)	T2(mm)	E(mm)
φ 330	330±1.5	21.5+0.5/-0	13+0.5-0.2	2.5+0.5/-0	100±1.5	16.9±0.4	2.00±0.5



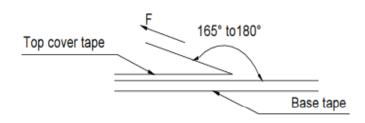
Series	size	W1(mm)	l(mm)	F(mm)	P0(mm)	G(mm)	P1(mm)	C(mm)	t0(mm)	D(mm)	H(mm)
PCN5045A	5045	12.00±0.3	1.75±0.1	5.50±0.1	4.00±0.1	2.00±0.1	8.00±0.1	4.9±0.1	0.35±0.05	5.10±0.1	2.70±0.1

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Packaging Information

Chip size	Chip/Reel
PCN5045A	2500

Tearing Off Force



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

Room Temp.	Room Humidity	Room atm	Tearing Speed
(℃)	(%)	(hPa)	mm/min
5~35	45~85	860~1060	300

Application Notice

Storage Conditions

To maintain the solderability of terminal electrodes:

- 1. products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- Temperature and humidity conditions: Less than 40^o and 60^o RH.
- Recommended products should be used within 12 months form the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.
- Transportation
 - 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
 - 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
 - 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.

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Soldering and Mounting

1. Soldering

Mildly activated rosin fluxes are preferred terminations are suitable for all wave and re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

1.1 Solder re-flow:

Recommended temperature profiles for re-flow soldering in Figure 1.

1.2 Soldering Iron(Figure 2):

Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the case that a soldering iron must be employed, the following precautions are recommended.

- Preheat circuit and products to 150℃ Never contact the ceramic with the iron tip Use a 20 watt soldering iron with tip diameter of 1.0mm
- · 355℃ tip temperature (max)
- 1.0mm tip diameter (max)
- Limit soldering time to 4~5 sec.

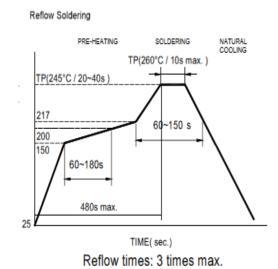
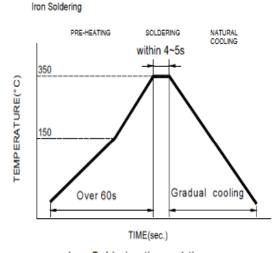


Fig.1



Iron Soldering times: 1 times max.

Fig.2

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