

## Introduction

This specification is applicable to chip type wire wounded common mode chokes. The PWC series PC, USB, HUB, etc. The wire wound features advance in lower DC resistance and higher current tolerance, and much stable performance.

## Features

- \* Operating temperature -40°C to +85°C
- \* Excellent solderability and resistance to soldering heat.
- \* Suitable for flow and reflow soldering.
- \* Good dimensions, high reliability, and easy surface mount assembly.



## Part Number

<b>PWC</b>	<b>0805</b>	<b>H</b>	<b>T</b>	<b>900</b>	<b>S</b>	
(1)	(2)	(3)	(4)	(5)	(6)	(7)

❶ Product Type

❷ Chip Dimension

Size (inch) mm	Length (L) (inch) mm	Width (W) (inch) mm	Thickness (H) (inch) mm	Terminal (S) (inch) mm	Terminal (T) (inch) mm
0805HT 201210	(0.079 ± 0.004) 2.00 ± 0.10	(0.047 ± 0.004) 1.20 ± 0.10	(0.039 ± 0.004) 1.00 ± 0.10	(0.018 ± 0.004) 0.45 ± 0.10	(0.016 ± 0.004) 0.40 ± 0.10
0805ST 201210	(0.079 ± 0.004) 2.00 ± 0.10	(0.047 ± 0.004) 1.20 ± 0.10	(0.039 ± 0.004) 1.00 ± 0.10	(0.018 ± 0.004) 0.45 ± 0.10	(0.016 ± 0.004) 0.40 ± 0.10
1206ST 321619	(0.126 ± 0.004) 3.20 ± 0.10	(0.063 ± 0.004) 1.60 ± 0.10	(0.075 ± 0.004) 1.90 ± 0.10	(0.024 ± 0.004) 0.60 ± 0.10	(0.024 ± 0.004) 0.60 ± 0.10

\* Drawing are in following pages.

❸ Material Type

S: With magnetic Shield

H: Epoxy Coating

❹ Inductance Value

900 = 90

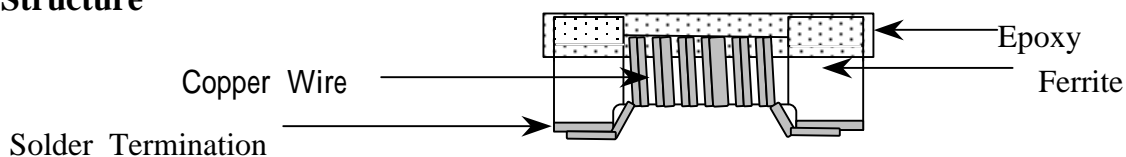
161 = 160

❺ Tolerance

S = ± 25%

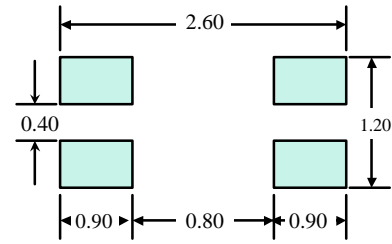
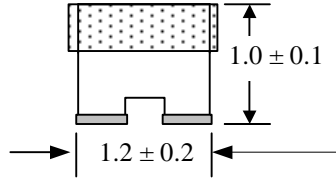
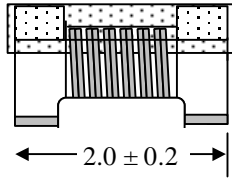
T = ± 30%

## Material Structure

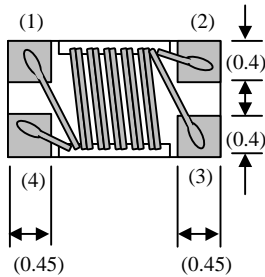



## COMMON MODE CHOKE WIRE WOUND TYPE

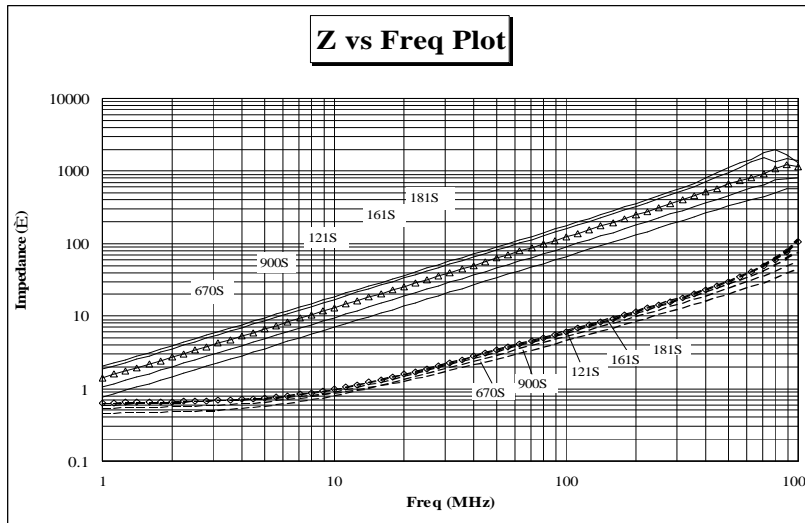
## PWC 0805 (2012) STANDARD SERIES



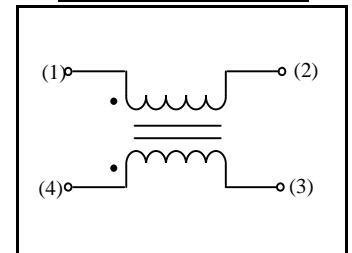
RECOMMENDED PCB PATTERN



Remark :  : Electrode  
 ( ) : Reference Value  
 Unit: m/m



EQUIVALENT CIRCUIT



No Polarity

### Specification

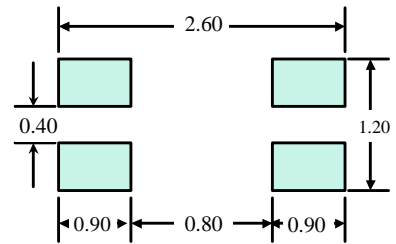
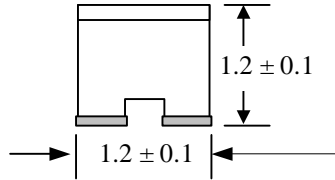
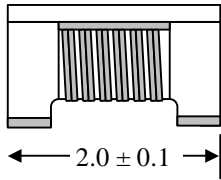
Part Number	Common Mode <sup>1</sup> Impedance (Ω) at 100MHz	Rated Voltage V (DC)	Withstanding Voltage V (DC)	Rated <sup>2</sup> Current max (mA)	DC Resistance max (Ω)	Insulation Resistance min (MΩ)
PWC0805HT670S	67	50	125	330	0.35	10
PWC0805HT900S	90	50	125	300	0.40	10
PWC0805HT121S	120	50	125	280	0.45	10
PWC0805HT181S	180	50	125	250	0.50	10

1. Impedance is measured in HP4287A.

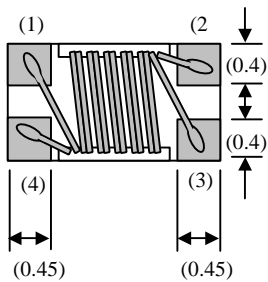
2. For 15 °C rise.

## COMMON MODE CHOKE WIRE WOUND TYPE

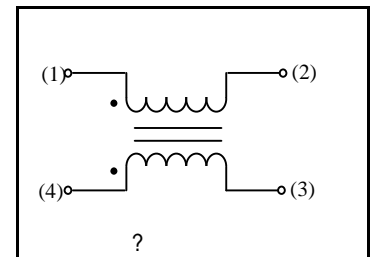
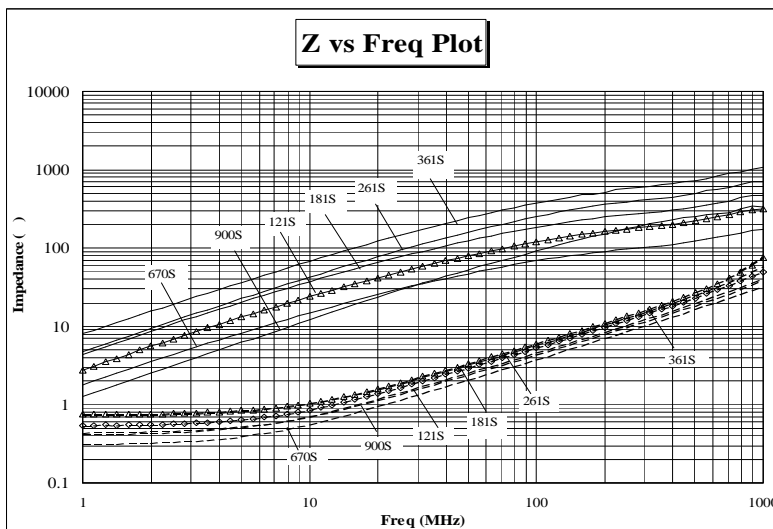
## PWC 0805 (2012) S SERIES



RECOMMENDED PCB PATTERN



Remark :  : Electrode  
( ) : Reference Value  
Unit: m/m



EQUIVALENT CIRCUIT

### Specification

Part Number	Common Mode <sup>1</sup> Impedance (Ω) at 100MHz	Rated Voltage V (DC)	Withstanding Voltage V (DC)	Rated <sup>2</sup> Current max (MA)	DC Resistance max (Ω)	Insulation Resistance min (MΩ)
PWC0805ST670S	67	50	125	400	0.35	10
PWC0805ST900S	90	50	125	330	0.35	10
PWC0805ST121S	120	50	125	370	0.30	10
PWC0805ST181S	180	50	125	330	0.35	10
PWC0805ST261S	260	50	125	300	0.40	10
PWC0805ST361S	360	50	125	280	0.45	10

1. Impedance is measured in HP4287A at frequency of 100MHz.

2. For 15 °C rise.