



# Power Splitter

## ■ PS Series

### Features

- Resistive type power splitter. Wide frequency range : DC to 20Ghz.
- Wide band provides less distortion of square pulses of digital signals
- Small and easy to mount
- Special design and thin film produce less reflection.

### Applications

- Communication devices
- Wide band measuring instrumentation



## ◆ Part numbering system

**PS 1608 G T2 - R50 - T1**

|                                       |                |          |                      |  |
|---------------------------------------|----------------|----------|----------------------|--|
| Series code                           | <b>PS 1608</b> | <b>G</b> | <b>T2 - R50 - T1</b> |  |
| Size : PS1608,PS2012<br>PS3216,PS5025 |                |          |                      | Packing quantity:<br>T=Tape(T1) B=Bulk |
| G : General                           |                |          |                      | Impedance : 50Ω                        |
|                                       |                |          |                      | Number of Output terminals             |

**PS 1005 T2 - R50 - FD - T1**

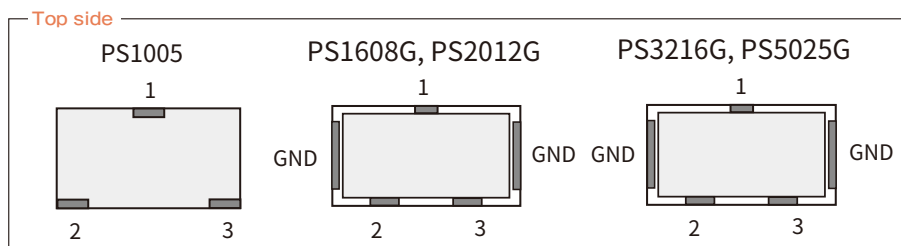
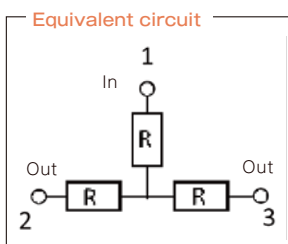
|               |                |                           |   |
|---------------|----------------|---------------------------|---|
| Series code   | <b>PS 1005</b> | <b>T2 - R50 - FD - T1</b> |   |
| Size : PS1005 |                |                           | Packing quantity:<br>T=Tape (T1/T5), B=Bulk |
|               |                |                           | No GND, Need Face down mounting             |
|               |                |                           | Impedance : 50Ω                             |

## ◆ Electrical Specification

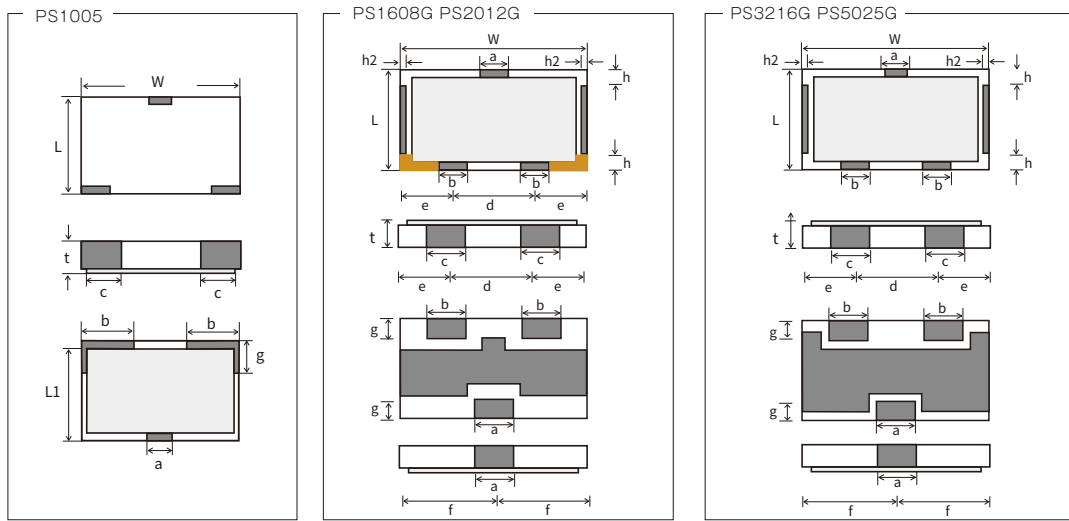
| Type                   | PS1005 ※1  | PS1608G  | PS2012G                           | PS3216G           | PS5025G    |
|------------------------|------------|--|-----------------------------------|-------------------|------------|
| Operating frequency    | DC - 20GHz | DC - 20GHz   | DC - 17.5GHz                      | DC - 15GHz        | DC - 10GHz |
| Rated power            | 100mW      | 100mW  | 125mW                             | 250mW             | 500mW      |
| Insersion Loss         | 6dB±0.5dB  |  |                                   |                   | < 10GHz    |
|                        | 6dB±1.0dB  |  |                                   |                   | < 7.5GHz   |
| Distribution Deviation |            | < 0.3dB (Max frequency)                                |                                   |                   |            |
| VSWR                   | ≤1.3       |  |                                   |                   | < 10GHz    |
|                        | ≤1.5       |  |                                   |                   | < 7.5GHz   |
| Operating temperature  |            | -40°C ~ +125°C   |                                   |                   |            |
| Packaging quantity     |            | 50pcs/bag(B)<br>1,000pcs/reel(T1)<br>5,000pcs/reel(T5) | 50pcs/bag(B)<br>1,000pcs/reel(T1) | 1,000pcs/reel(T1) |            |

※1 The PS1005 series has no ground plane.

## ◆ Equivalent Circuit and pin arrangement



### ◆ Dimensions

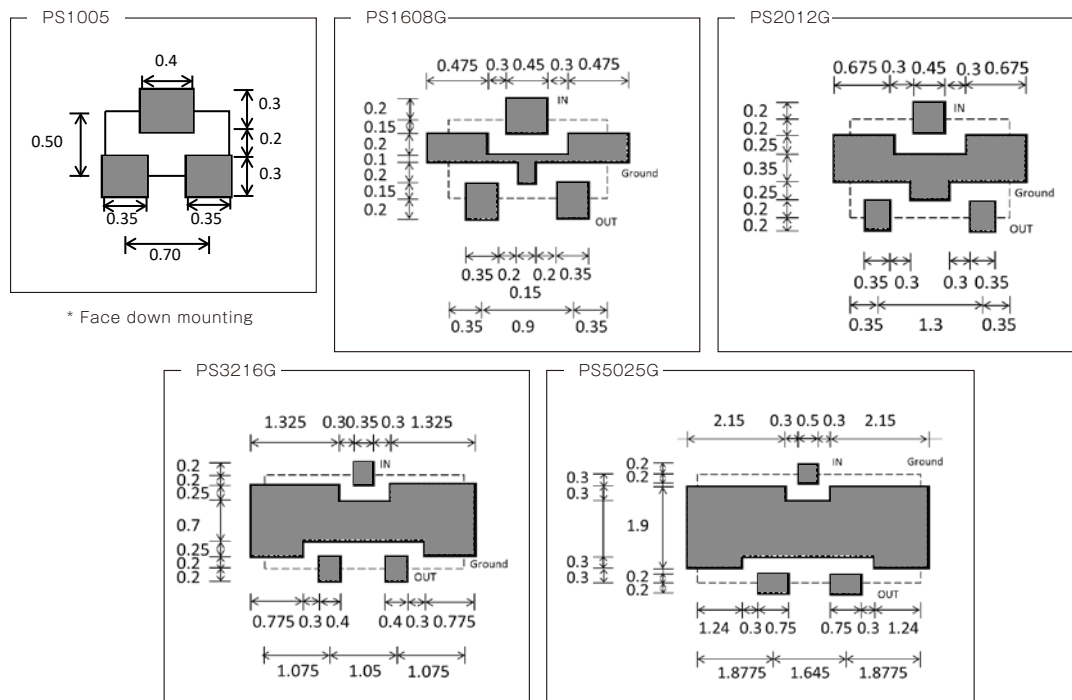


■ : Non-Plated area min (0.1) 2

| Type    | Size (inch) | W         | L         | L1        | t         | a         | b         | c         | d         | e          | f         | g         | h         | h2     |
|---------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|--------|
| PS1005  | 0402        | 1.00±0.10 | 0.50±0.10 | 0.40±0.10 | 0.30±0.10 | 0.40±0.10 | 0.35±0.10 | 0.30±0.10 | —         | —          | —         | 0.20±0.10 | —         | —      |
| PS1608G | 0603        | 1.60±0.10 | 0.80±0.10 | —         | 0.40±0.10 | 0.45±0.10 | 0.35±0.10 | 0.35±0.10 | 0.80±0.10 | 0.40±0.10  | 0.80±0.10 | 0.25±0.15 | 0.10±0.05 | (0.15) |
| PS2012G | 0805        | 2.00±0.10 | 1.25±0.10 | —         | 0.40±0.10 | 0.45±0.15 | 0.35±0.15 | 0.35±0.15 | 1.30±0.20 | 0.35±0.10  | 1.00±0.10 | 0.25±0.15 | 0.10±0.05 | (0.15) |
| PS3216G | 1206        | 3.20±0.10 | 1.60±0.10 | —         | 0.40±0.10 | 0.35±0.10 | 0.40±0.15 | 0.45±0.15 | 1.05±0.20 | 1.075±0.10 | 1.60±0.20 | 0.25±0.15 | 0.20±0.05 | (0.15) |
| PS5025G | 2010        | 5.00±0.10 | 2.50±0.10 | —         | 0.80±0.20 | 0.50±0.20 | 0.75±0.20 | 0.85±0.20 | 1.70±0.40 | 1.65±0.20  | 2.50±0.20 | 0.30±0.15 | 0.25±0.15 | (0.15) |

(unit : mm)

### ◆ Recommended land patterns (soldering footprints)



\* Face down mounting

### ◆ Derating Curve

