



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

Series code

Size : PS1608,PS2012
PS3216,PS5025

G : General

PS 1608 G

T2 - R50 - T1

Packing quantity:
T=Tape (T1/T5), B=Bulk

Impedance : 50Ω

Number of Output terminals

Series code

Size : PS1005

Number of Output terminals

PS 1005 T2 - R50 - FD - T1

Packing quantity:
T=Tape (T1/T5), B=Bulk

No GND, Need Face down mounting

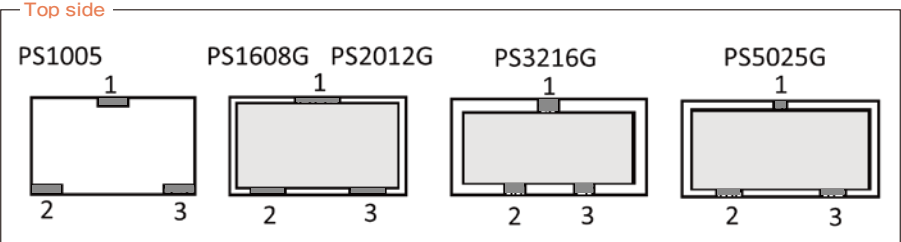
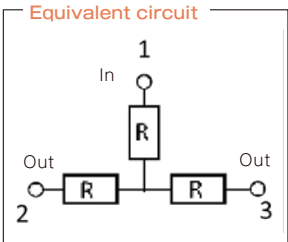
Impedance : 50Ω

◆Electrical Specification

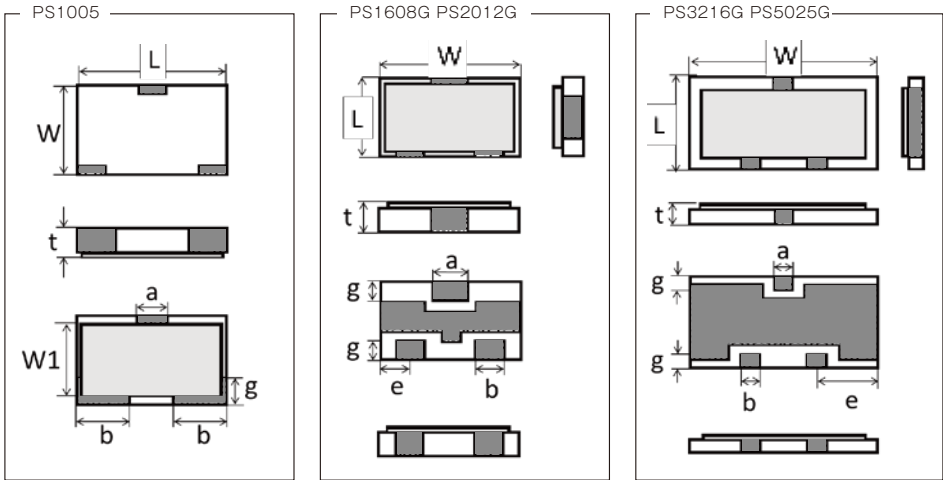
Type		PS1005 ※1	PS1608G	PS2012G	PS3216G	PS5025G
Operating frequency		DC - 20GHz	DC - 20GHz	DC - 17.5GHz	DC - 15GHz	DC - 10GHz
Rated power		100mW	100mW	125mW	250mW	500mW
Inserion Loss	6dB±0.5dB	< 10GHz				< 7.5GHz
	6dB±1.0dB	< 20GHz		<17.5GHz	<15GHz	<10GHz
Distribution Deviation		< 0.3dB (Max frequency)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

※1 The PS1005 series has no ground plane.

◆Equivalent Circuit and pin arrangement



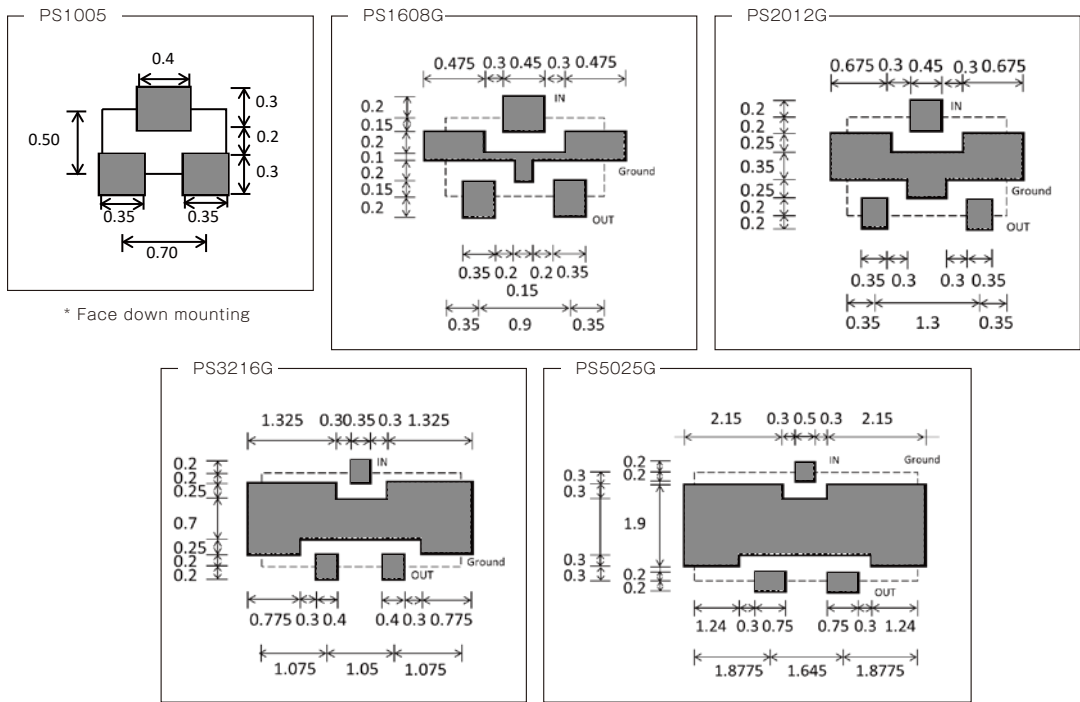
◆ Dimensions



Type	Size (inch)	W	L	t	a	b	e	g
PS1005	0402	1.00±0.10	0.50±0.10	0.30±0.10	0.40±0.10	0.35±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	0.40±0.10	0.25±0.10
PS2012G	0805	2.00±0.10	1.25±0.10	0.40±0.10	0.45±0.15	0.35±0.15	0.35±0.10	0.25±0.10
PS3216G	1206	3.20±0.10	1.60±0.10	0.40±0.10	0.35±0.10	0.40±0.15	1.075±0.10	0.20±0.10
PS5025G	2010	5.00±0.20	2.50±0.20	0.80±0.20	0.50±0.20	0.75±0.20	1.65±0.20	0.30±0.15

(unit : mm)

◆ Recommended land patterns (soldering footprints)



* Face down mounting

◆ Derating Curve

