



# Power Splitters

## ■ 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	PS 1608	G	T2 - R50 - T1	Packing quantity: T=Tape(T1) B=Bulk
Size : PS1608,PS2012 PS3216,PS5025			Impedance : 50Ω	
G : General			Number of Output terminals	

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

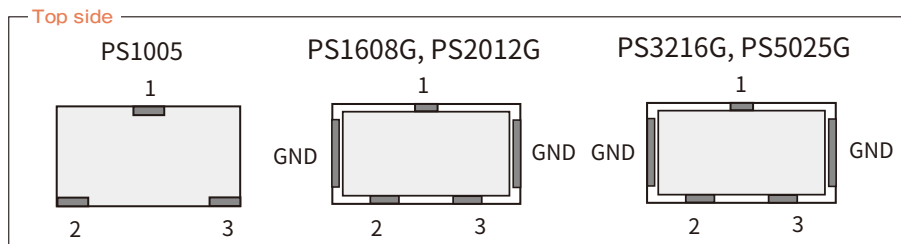
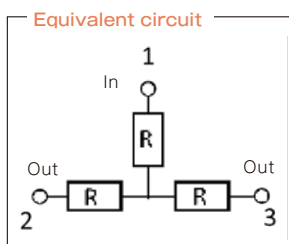
Series code	PS 1005	T2 - R50 - FD - T1	Packing quantity: T=Tape (T1/T5), B=Bulk
Size : PS1005			No GND, Need Face down mounting
Number of Output terminals			Impedance : 50Ω

## ◆ Electrical Specification

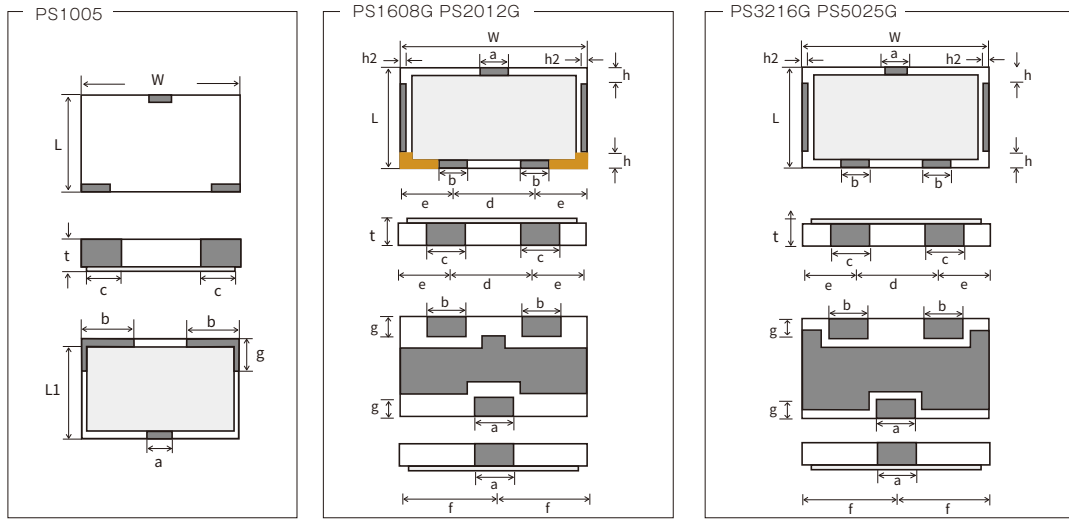
Type	PS1005 *1	PS1608G	PS2012G	PS3216G	PS5025G
Operating frequency	DC - 20GHz	DC - 20GHz	DC - 17.5GHz	DC - 15GHz	DC - 10GHz
Rated power	100mW	100mW	125mW	250mW	500mW
Insersion Loss	6dB±0.5dB				< 10GHz
	6dB±1.0dB				< 7.5GHz
Distribution Deviation		< 0.3dB (Max frequency)			
VSWR	≤1.3				< 10GHz
	≤1.5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

\*1 The PS1005 series has no ground plane.

## ◆ Equivalent Circuit and pin arrangement



## ◆ Dimensions

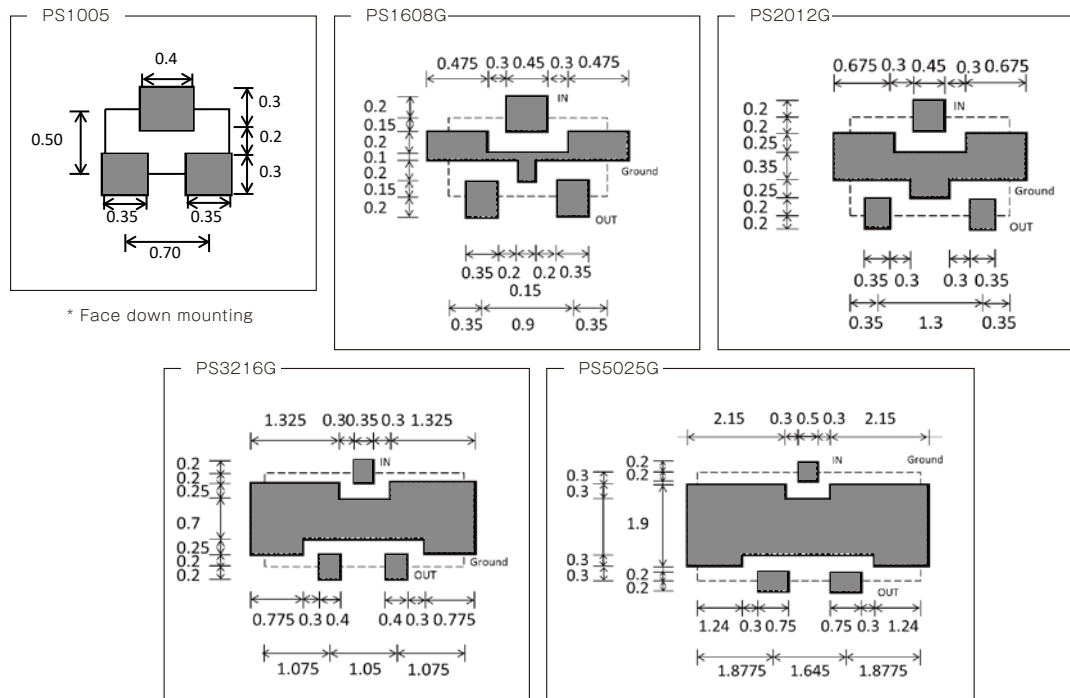


■ : Non-Plated area min (0.1)  $\mu$ m

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

(unit : mm)

## ◆ Recommended land patterns (soldering footprints)



\* Face down mounting

## ◆ Derating Curve

