

Chip power splitter

■ PS series

Features

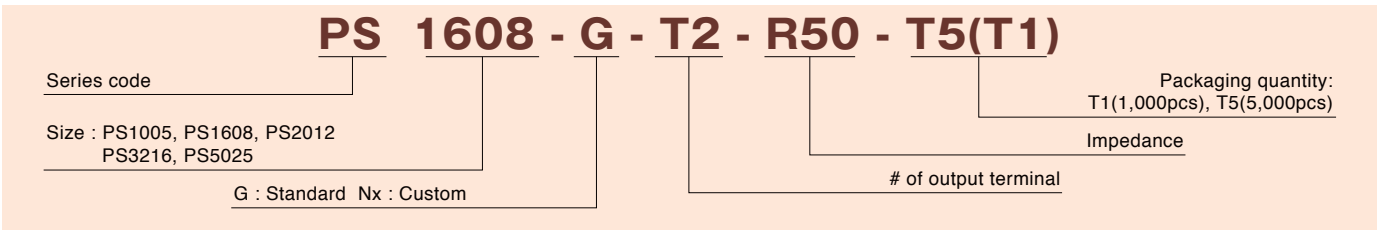
- Frequency range: DC to 20GHz
- Wide frequency band enables minimal pulse shape distortion and timing jitter
- Small and easy to mount
- Thin film design minimizes return loss
- Two type available: with ground or applicable to customer's board.

Applications

- Base stations, communication devices



◆ Part numbering system



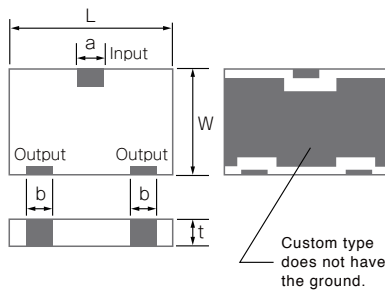
◆ Electrical Specification

Sizes	PS1005 ^{*2}	PS1608	PS2012	PS3216	PS5025
Frequency range	DC - 20GHz	DC - 20GHz	DC - 17.5GHz	DC - 15GHz	DC - 10GHz
Input power ratings	100mW	100mW	125mW	250mW	500mW
Insertion loss ^{*1}	6dB±0.5dB(B)	6dB±0.5dB(B)	6dB±0.5dB(A)	6dB±0.5dB(A)	6dB±0.5dB(A)
	6dB±1.0dB(D)	6dB±1.0dB(D)	6dB±1.0dB(C)	6dB±1.0dB(C)	6dB±1.0dB(B)
	6dB±2.0dB(F)	6dB±2.0dB(F)	6dB±2.0dB(F)	6dB±2.0dB(F)	6dB±2.0dB(F)
Power balance ^{*1}	within 0.5dB(B)	within 0.5dB(B)	within 0.3dB(A)	within 0.3dB(A)	within 0.3dB(A)
	within 1dB(F)	within 1dB(F)	within 1dB(F)	within 1dB(F)	within 1dB(F)
VSWR ^{*1}	1.3(B)	1.3(B)	1.3(A)	1.3(A)	1.3(A)
	1.5(D)	1.5(D)	1.5(C)	1.5(C)	1.5(B)
	1.7(F)	1.7(F)	1.7(F)	1.7(F)	1.7(F)
Operating temperature	-40°C ~ +125°C				

*1 Frequency range designation: A: DC-5.0GHz, B: 5.0 -7.5GHz, 7.5-10GHz, D: 10-15GHz, F: up to the highest frequency.

*2 PS1005 series does not have the ground area.

◆ Dimensions



Type	PS1005	PS1608	PS2012	PS3216	PS5025
Size(inch)	0402	0603	0805	1206	2010
L	1.0±0.1	1.6±0.15	2.0±0.15	3.2±0.1	5.0±0.2
W	0.5±0.1	0.8±0.15	1.25±0.15	1.6±0.1	2.5±0.2
a	0.4±0.1	0.45±0.1	0.45±0.15	0.35±0.15	0.50±0.2
b	0.2±0.1	0.35±0.15	0.35±0.15	0.40±0.15	0.75±0.2
t	0.3±0.1	0.4±0.1	0.4±0.1	0.4±0.1	0.4±0.2

(unit : mm)