



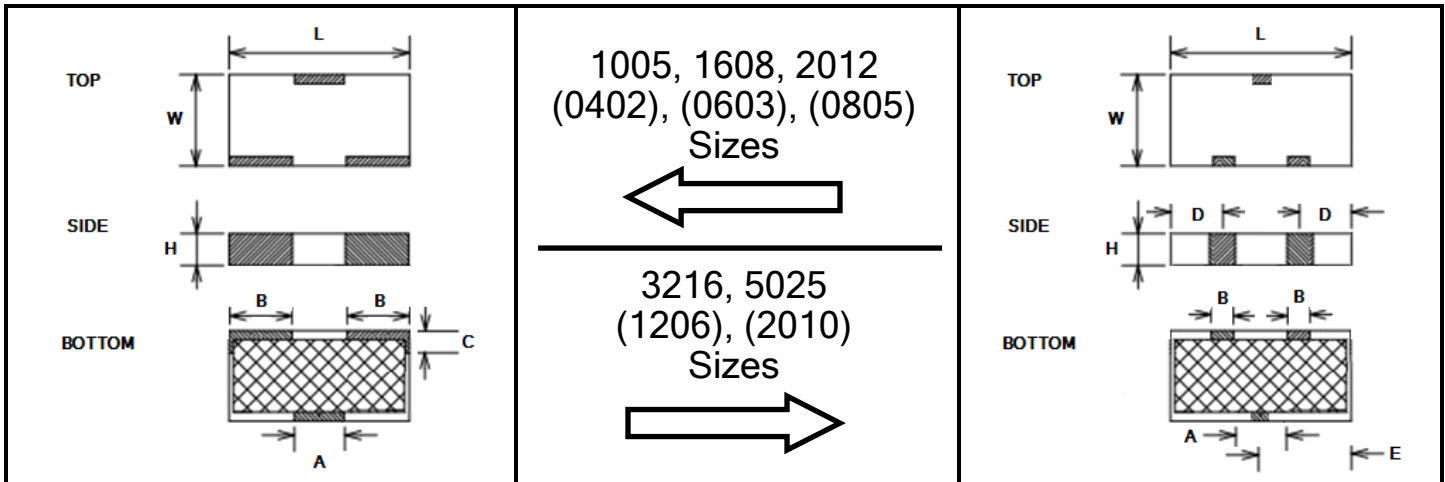
Product Family: [High Precision Chip Power Splitter](#)
Part Number Series: [PS-T2 Series \(No Ground\)](#)



	<p>Construction:</p> <ul style="list-style-type: none"> • High Purity Alumina Substrate • Ni alloy thin-film resistive elements • Wrap around electrodes • Offered without ground for face down mounting and better frequency performance • 100% matte tin over Ni terminations (RoHS compliant and Pb Free) 	<p>Features:</p> <ul style="list-style-type: none"> • 0402, 0603, 0805, 1206 and 2010 English case sizes • Frequency range from DC to 20GHz • Excellent balance of output signals • High volume production suitable for commercial and special applications
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Description:
 These precision chip power splitters exhibit excellent high frequency characteristics for applications from DC to 20GHz. Bit error is restrained by keeping the high frequency digital signal stable. These components are offered without a ground plane to allow for face down mounting which exhibits better frequency performance.

Product Dimensions:



Dimension	L	W	H	A	B	C	D	E
PS1005 (0402)	0.039 ±0.008	0.020 ±0.004	0.012 ±0.004	0.016 ±0.004	0.014 ±0.004	0.008 ±0.004	N/A	N/A
PS1608 (0603)	0.063 ±0.008	0.032 ±0.008	0.016 ±0.004	0.018 ±0.004	0.022 ±0.004	0.010 ±0.004	N/A	N/A
PS2012 (0805)	0.079 ±0.008	0.049 ±0.008	0.016 ±0.004	0.016 ±0.004	0.016 ±0.004	0.008 ±0.004	N/A	N/A
PS3216 (1206)	0.126 ±0.008	0.063 ±0.008	0.016 ±0.004	0.028 ±0.004	0.032 ±0.004	N/A	0.032 ±0.008	0.063 ±0.008
PS5025 (2010)	0.197 ±0.008	0.098 ±0.008	0.032 ±0.006	0.012 ±0.006	0.028 ±0.008	N/A	0.065 ±0.008	0.098 ±0.008

Note: Dimensions in inches but use metric size when ordering as shown in the part numbering section. English case size shown in parenthesis.

PS Series Part Numbering: Ex: PS1608-T2-R50-FD-T1*

Product Designator	Metric Size (English)	# of Output Terminals	Impedance	Pattern Orientation	Packaging Quantity
PS	1005 (0402) 1608 (0603) 2012 (0805) 3216 (1206) 5025 (2010)	T2 = 2	-R50 = 50Ω	-FD = Face Down mounting and T&R orientation	-B = Bulk -T1 = 1,000 (T&R) -T5 = 5,000 (T&R)

Notes: * All part numbers will automatically have a "-LF" appended to the end of them to indicate RoHS compliance/Pb Free (RoHS 6/6).

Electrical Specifications:

Type		PS1005	PS1608	PS2012	PS3216	PS5025
English Size		0402	0603	0805	1206	2010
Metric Size		1005	1608	2012	3216	5025
Frequency Range		DC ~ 20GHz	DC ~ 20GHz	DC ~ 17.5GHz	DC ~ 15GHz	DC ~ 10GHz
Insertion loss	DC ~ 5GHz	6dB ±0.5dB	6dB ±0.5dB	6dB ±0.5dB	6dB ±0.5dB	6dB ±0.5dB
	DC ~ 7.5GHz			6dB ±1.0dB	6dB ±1.0dB	6dB ±1.0dB
	DC ~ 10GHz	6dB ±1.0dB	6dB ±1.0dB	6dB ±2.0dB	6dB ±2.0dB	6dB ±2.0dB
	DC ~ 15GHz					
	DC ~ Max Freq	6dB ±2.0dB	6dB ±2.0dB	6dB ±2.0dB	6dB ±2.0dB	6dB ±2.0dB
VSWR	DC ~ 5GHz	1.3	1.3	1.3	1.3	1.3
	DC ~ 7.5GHz			1.5	1.5	1.5
	DC ~ 10GHz					
	DC ~ 15GHz					
	DC ~ Max Freq	1.7	1.7	1.7	1.7	1.7
Balance of Output signals	DC ~ 5GHz	< 0.5dB	< 0.5dB	< 0.3dB	< 0.3dB	< 0.3dB
	DC ~ 7.5GHz			< 1.0dB	< 1.0dB	< 1.0dB
	DC ~ Max Freq	< 1.0dB	< 1.0dB	< 1.0dB	< 1.0dB	< 1.0dB
Rated Input Power		100mW	100mW	125mW	250mW	500mW
Operating Temperature		-40°C ~ +125°C				
Packaging		1,000 or 5,000 pcs/reel				

Recommended Land Patterns (dimensions in mm):

