



Product Family: [High Precision Chip Power Splitter](#)
Part Number Series: [PS-GT2 Series \(Ground\)](#)



	<p>Construction:</p> <ul style="list-style-type: none"> • High Purity Alumina Substrate • Ni alloy thin-film resistive elements • Wrap around electrodes • 100% matte tin over Ni terminations (RoHS compliant and Pb Free) 	<p>Features:</p> <ul style="list-style-type: none"> • 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
<p>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. This series includes a ground plane on the bottom side. Customs are designed to the customers specifications.</p>		

Product Dimensions:

	<table border="1"> <thead> <tr> <th>Dimension</th> <th>L</th> <th>W</th> <th>T</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>PS1608 (0603)</td> <td>0.063 ±0.008</td> <td>0.032 ±0.008</td> <td>0.016 ±0.004</td> <td>0.018 ±0.004</td> <td>0.014 ±0.004</td> <td>0.004 ±0.002</td> <td>0.010 ±0.004</td> </tr> <tr> <td>PS2012 (0805)</td> <td>0.079 ±0.008</td> <td>0.049 ±0.008</td> <td>0.016 ±0.004</td> <td>0.018 ±0.004</td> <td>0.014 ±0.004</td> <td>0.004 ±0.002</td> <td>0.010 ±0.004</td> </tr> <tr> <td>PS3216 (1206)</td> <td>0.126 ±0.008</td> <td>0.063 ±0.008</td> <td>0.016 ±0.004</td> <td>0.014 ±0.004</td> <td>0.016 ±0.004</td> <td>0.008 ±0.002</td> <td>0.010 ±0.004</td> </tr> <tr> <td>PS5025 (2010)</td> <td>0.197 ±0.008</td> <td>0.098 ±0.008</td> <td>0.032 ±0.006</td> <td>0.020 ±0.006</td> <td>0.030 ±0.008</td> <td>0.010 ±0.004</td> <td>0.012 ±0.004</td> </tr> </tbody> </table> <p>Note: Dimensions in inches but use metric size when ordering as shown in the part numbering section. English case sizes shown in parenthesis.</p>	Dimension	L	W	T	A	B	C	D	PS1608 (0603)	0.063 ±0.008	0.032 ±0.008	0.016 ±0.004	0.018 ±0.004	0.014 ±0.004	0.004 ±0.002	0.010 ±0.004	PS2012 (0805)	0.079 ±0.008	0.049 ±0.008	0.016 ±0.004	0.018 ±0.004	0.014 ±0.004	0.004 ±0.002	0.010 ±0.004	PS3216 (1206)	0.126 ±0.008	0.063 ±0.008	0.016 ±0.004	0.014 ±0.004	0.016 ±0.004	0.008 ±0.002	0.010 ±0.004	PS5025 (2010)	0.197 ±0.008	0.098 ±0.008	0.032 ±0.006	0.020 ±0.006	0.030 ±0.008	0.010 ±0.004	0.012 ±0.004
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PS Series Part Numbering: Ex: PS5025-GT2-R50-T5*

Product Designator	Metric Size (English)	Package Type **	# of Output Terminals	Impedance	Packaging Quantity
PS	1608 (0603) 2012 (0805) 3216 (1206) 5025 (2010)	-G = Ground Plane on Bottom	T2 = 2	-R50 = 50Ω	-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).

Examples:

Part Number	Metric Size (English size)	Pattern Orientation	Package Qty
PS5025-GT2-R50-B	5025 (2010)	Pattern side up	B = Bulk (25 pcs MOQ, increments of 1)
PS1608-GT2-R50-T1	1608 (0603)	Pattern side up	-T1 = 1,000 pcs Tape and Reel
PS2012-GT2-R50-T5	2012 (0805)	Pattern side up	-T5 = 5,000 pcs Tape and Reel

Electrical Specifications:

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

Recommended Land Patterns (dimensions in mm):

