

Product Features

The P1dB SMA directional coupler is designed to operate from 1 to 4 GHz and is available in 10dB, 20dB, 30dB. The RF Coupler has SMA Female SAF connectors and can handle power levels from 10 to 50 Watts, depending on the coupling value. This SMA Coupler is a good solution for signal sampling, such as in a production test system. Other coupling values are available upon request.



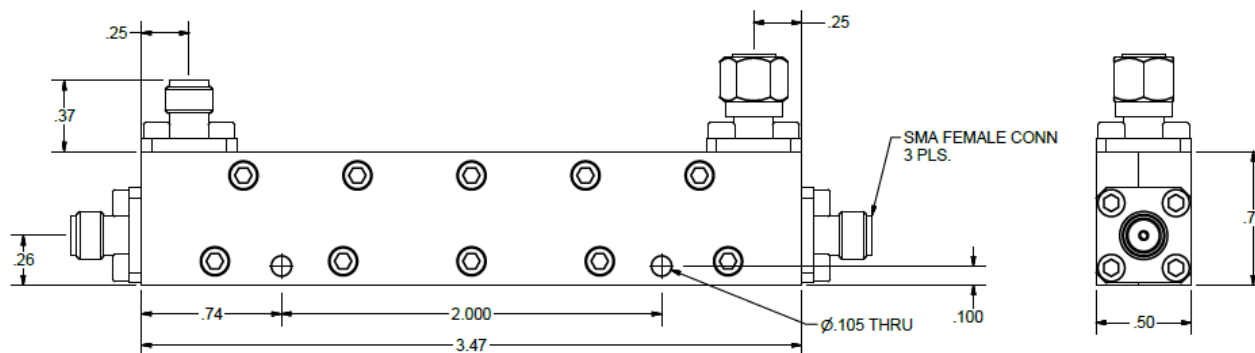
Electrical Specification: $T_{\text{Ambient}} = 25^{\circ}\text{C}$

Parameter	Frequency Range	Units	Min	Typical	Max	Notes
Impedance	1 to 4 GHz	Ohms	—	50	—	
Coupling Accuracy	1 to 4 GHz	dB	—	—	± 1.0	
Insertion Loss	1 to 4 GHz	dB	—	—	0.5	
10 dB					0.4	
20 dB					0.4	
30 dB					0.4	
Directivity	1 to 4 GHz	dB	25	—	—	
Flatness	1 to 4 GHz	dB	± 0.50	—	—	
VSWR, Main Line	1 to 4 GHz	1:	—	—	1.25	
VSWR, Coupled Line	1 to 4 GHz	1:	—	—	1.5	
Peak Power	1 to 4 GHz	KW	—	—	3	
Average Power	1 to 4 GHz	Watts	—	—	10	Linearly derates to 10% at +85°C
10 dB					50	
20 dB					50	
30 dB					50	

Mechanical Specification

Parameter	Description	Notes
Connector Type	SMA Female	
Connector Material and Plating	Nickel Plated Brass	
Contact Material and Plating	Gold Plated Beryllium Copper	
Housing	Aluminum	
Operating Temperature	-55 to 85° C	

Drawing



Part Number Definition

Coupling Value	Part Number
10 dB	P1CP-0104G10W-10
20 dB	P1CP-0104G50W-20
30 dB	P1CP-0104G50W-30