

P1CP-SAF-R518G30W-XX

## **Product Features**

The P1dB P1CP-SAF-R518G30W, 0.5 to 18 GHz directional coupler series is available in three standard coupling values of 10 dB, 20 dB and 30 dB, with coupling values available upon request. The RF couplers come with SMA connectors and can handle up to 30 Watts. The P1dB P1CP-SAF-R518G30W broadband couplers are good solution where wideband frequency coverage is needed, including test instrumentation and general purpose lab use.



**Electrical Specification:** T<sub>Ambient</sub> = 25° C

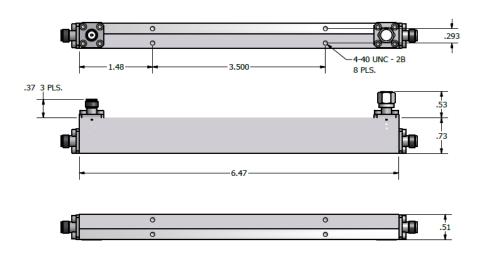
Parameter	Frequency Range	Units	Min	Typical	Max	Notes
Impedance	0.5 to 18 GHz	Ohms	_	50	_	
Coupling Accuracy	0.5 to 18 GHz	dB	_	_	±1.0	
Insertion Loss						
10 dB					2.6	Includes coupling loss
20 dB	0.5 to 18 GHz	dB	_	_	1.6	includes coupling loss
30 dB					1.5	
Coupling Accuracy						
10 dB	0.5. 40.00	10	±1.5			Including Flatness
20 dB	0.5 to 18 GHz	dB	±2.0	_	_	including Flattiess
30 dB			±3.0			
Directivity	0.51.4.611		22			
40 10 20 10	0.5 to 4 GHz		22			
10 dB, 20 dB	4 to 12.4 GHz		15	_	_	
	12.4 to 18 GHz	l n	10			
	0.5.1.4.611	dB	20			
00.10	0.5 to 4 GHz		20			
30 dB	4 to 12.4 GHz		12	_	_	
el .	12.4 to 18 GHz		9			
Flatness			. 0. 75			
10 dB	0.51, 40.611	l n	±0.75			
20 dB	0.5 to 18 GHz	dB	±0.75	_	_	
30 dB			±0.80			
VSWR	0.5 +- 0.611-				4.25	
10 dB	0.5 to 8 GHz				1.35	
	8 to 18 GHz	1.			1.60	
20 4p 30 4p	0.5 +0.9 CU-	1:	_	_	1 20	
20 dB, 30 dB	0.5 to 8 GHz				1.30	
A	8 to 18 GHz	\A/-++-			1.35	Linearly deretes to 100/ at 1100°C
Average Power	0.5 to 18 GHz	Watts	_	_	30	Linearly derates to 10% at +100°C

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## **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	

## **Drawing**



## **Part Number Definition**

<b>Coupling Value</b>	Part Number
10 dB	P1CP-R518G30W-10
20 dB	P1CP-R518G30W-20
30 dB	P1CP-R518G30W-30