

90 Degree 3dB Bridge

电桥特性 Electrical:

工作频率 Frequency Range:	800-4200MHz
耦合度Coupling :	3dB
插入损耗 Insertion Loss:	0.50dB Max
隔离度Isolation:	-18.0dB Min
驻波 VSWR:	1.35:1 Max
幅度平衡 Amplitude Balance:	± 0.9 dB max
相位平衡Phase Balance:	90 ± 3.0 degree
耐功率 Power Handling:	200 Watt
阻抗 Impedance:	50 OHMS

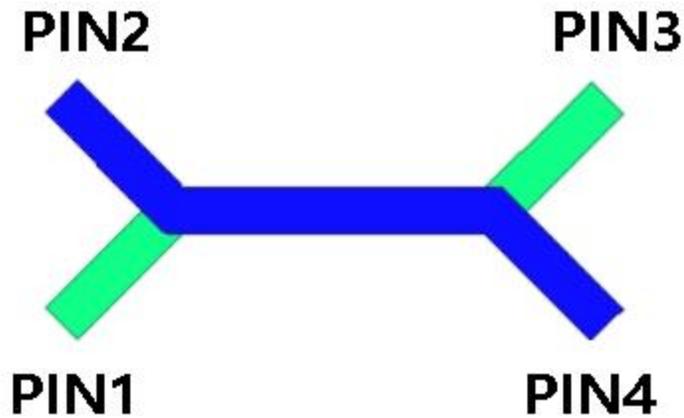
机械特性 Mechanical:

温度范围Temperature Range:	-55° C - +105° C
大小Size:	34mm*12.7mm
厚度Thickness:	5.3mm
相对湿度Relative Humidity:	0 ~ 90%

外形尺寸Outline Drawing:

Unit: mm(Inches)

Hybrid Coupler Pin Configuration



Configuration	Pin1	Pin2	Pin3	Pin4
Splitter	Input	$-3\text{dB} < \theta$	$-3\text{dB} < \theta - 90^\circ$	Isolated
Splitter	$-3\text{dB} < \theta$	Input	Isolated	$-3\text{dB} < \theta - 90^\circ$
Splitter	$-3\text{dB} < \theta - 90^\circ$	Isolated	Input	$-3\text{dB} < \theta$
Splitter	Isolated	$-3\text{dB} < \theta - 90^\circ$	$-3\text{dB} < \theta$	Input
Combiner	$-3\text{dB} < \theta - 90^\circ$	Output	Isolated	$-3\text{dB} < \theta$
Combiner	Output	$-3\text{dB} < \theta - 90^\circ$	$-3\text{dB} < \theta$	Isolated
Combiner	Isolated	$-3\text{dB} < \theta$	$-3\text{dB} < \theta - 90^\circ$	Output
Combiner	$-3\text{dB} < \theta$	Isolated	Output	$-3\text{dB} < \theta - 90^\circ$

Typical Performance Data

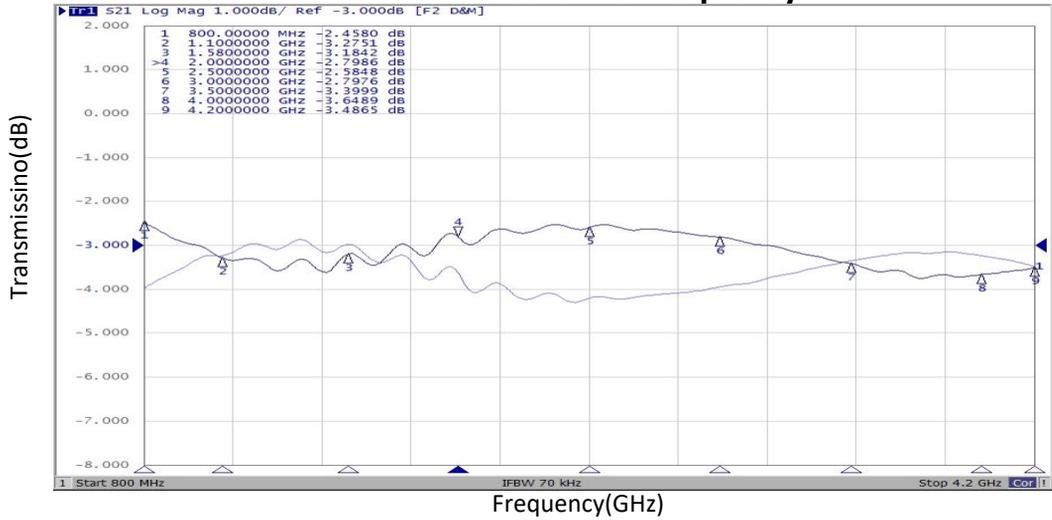
Frequency	MHz	800	1100	1580	2000	2500	3000	3500	4000	4200	
Coupling	dB	-3.99	-3.22	-2.96	-3.62	-4.18	-3.93	-3.33	-3.23	-3.48	
Transmission	dB	-2.46	-3.28	-3.18	-2.80	-2.58	-2.80	-3.40	-3.65	-3.49	
Insertion Loss	dB	-0.18	-0.23	-0.07	-0.18	-0.30	-0.34	-0.35	-0.36	-0.48	
Isolation	dB	-21.33	-20.23	-18.69	-18.72	-21.43	-25.35	-22.17	-22.67	-24.84	
Phase	degree	90.88	90.88	88.87	88.96	90.83	89.47	90.49	91.15	92.06	
Return Loss	Input	dB	1.23	1.24	1.29	1.31	1.20	1.03	1.10	1.09	1.08
	Coupler	dB	1.23	1.24	1.26	1.25	1.12	1.12	1.12	1.11	1.12
	Transmission	dB	1.24	1.26	1.29	1.30	1.19	1.01	1.11	1.11	1.14
	Isolated	dB	1.25	1.27	1.29	1.28	1.13	1.14	1.19	1.10	1.06

典型曲线 Typical Performance Data:

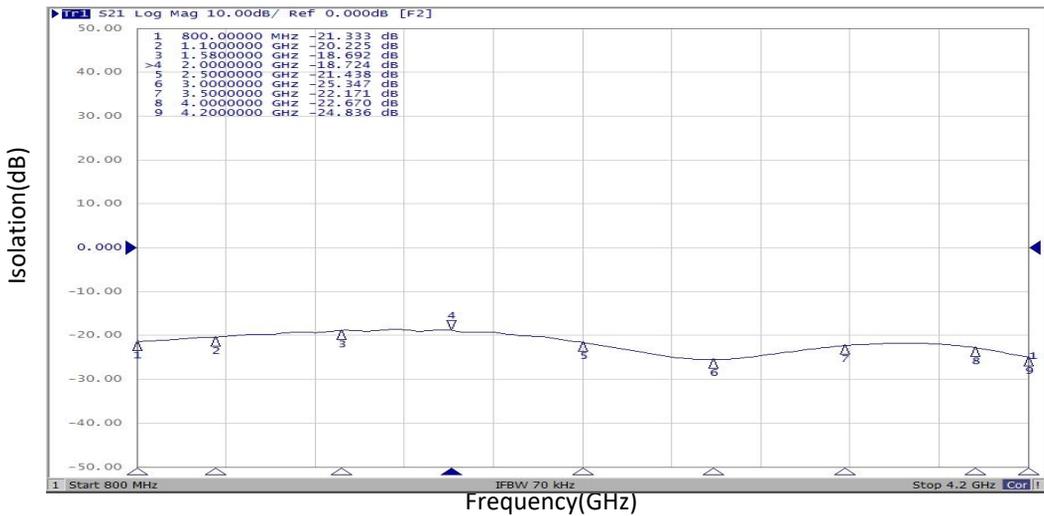
Coupling vs Frequency

Coupling(dB)

Transmission vs Frequency



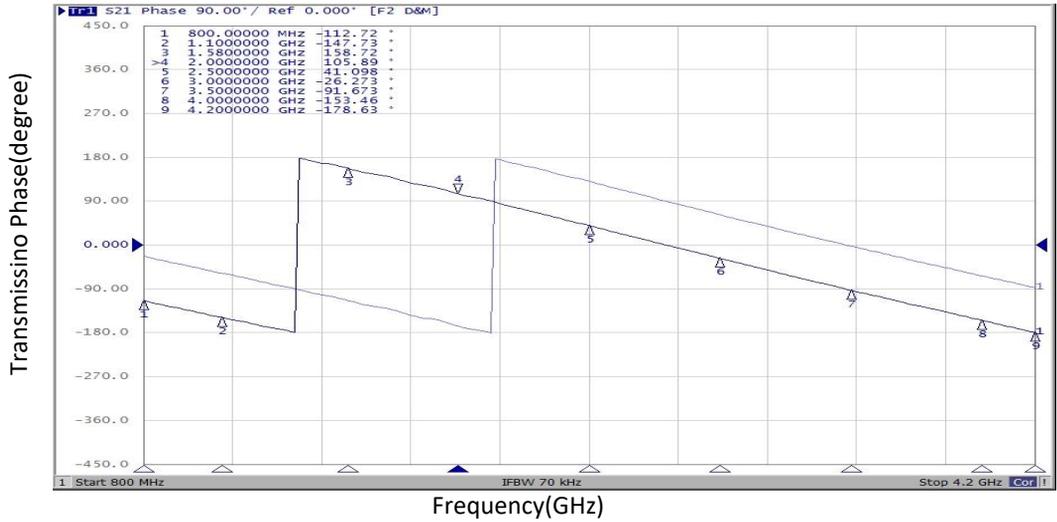
Isolation vs Frequency



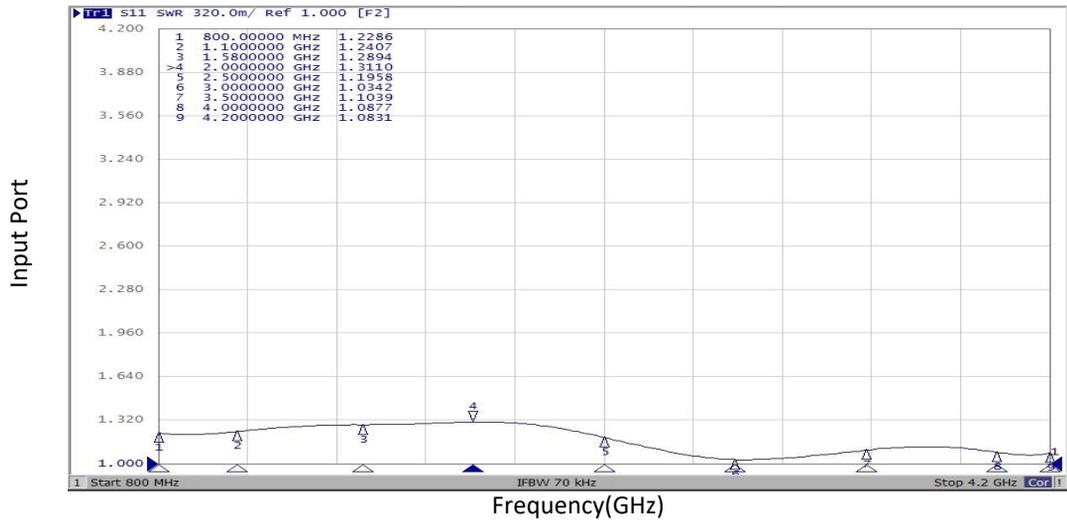
Coupling Phase vs Frequency

Coupling Phase(degree)

Transmission Phase vs Frequency



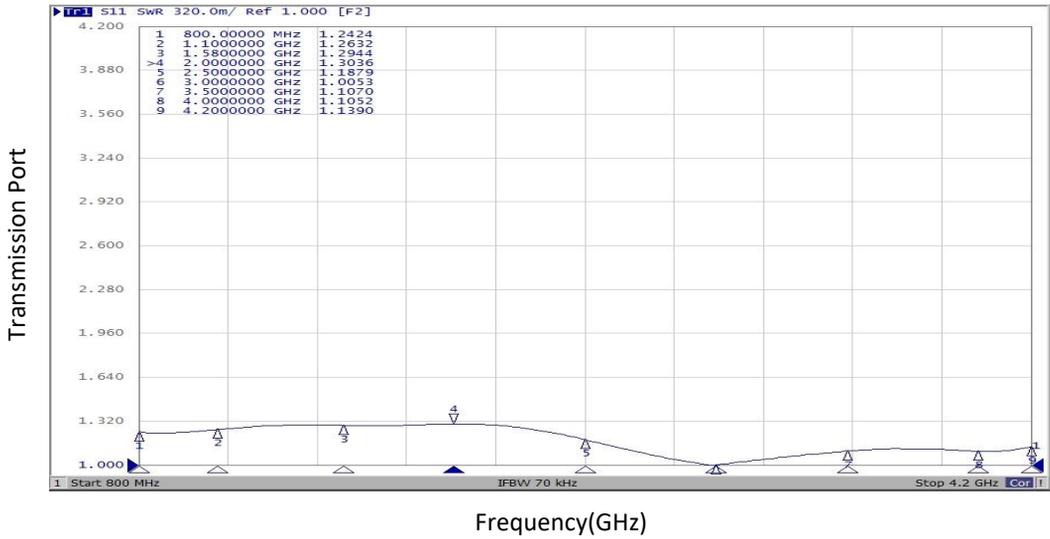
Input Port vs Frequency



Coupling Port vs Frequency

Coupling Port

Transmission Port vs Frequency



Isolation Port vs Frequency

