

Part No.: TBG-0842-3S-90-SMD

90 Degree 3dB Bridge

电桥特性 Electrical:

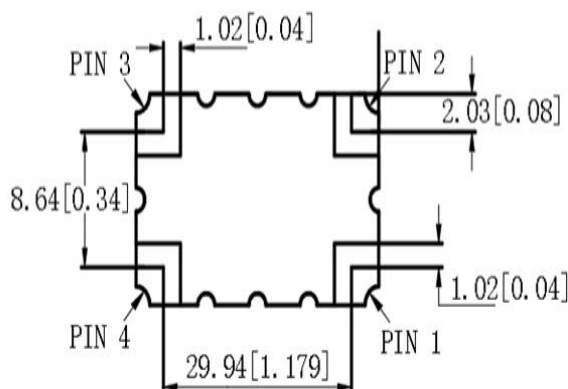
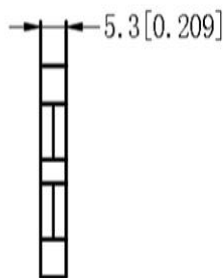
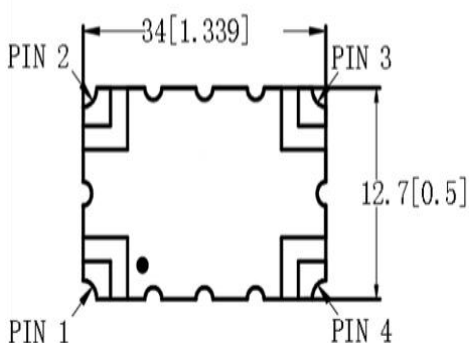
工作频率 Frequency Range:	800-4200MHz
耦合度Coupling :	3dB
插入损耗 Insertion Loss:	0.50dB Max
隔离度Isolation:	-18.0dB Min
驻波 VSWR:	1.35:1 Max
幅度平衡 Amplitude Balance:	$\pm 0.9\text{dB max}$
相位平衡Phase Balance:	$90 \pm 3.0 \text{ degree}$
耐功率 Power Handling:	200 Watt
阻抗 Impedance:	50 OHMS

机械特性 Mechanical:

温度范围Temperature Range:	$-55^{\circ} \text{ C} - +105^{\circ} \text{ C}$
大小Size:	34mm*12.7mm
厚度Thickness:	5.3mm
相对湿度Relative Humidity:	0 ~ 90%

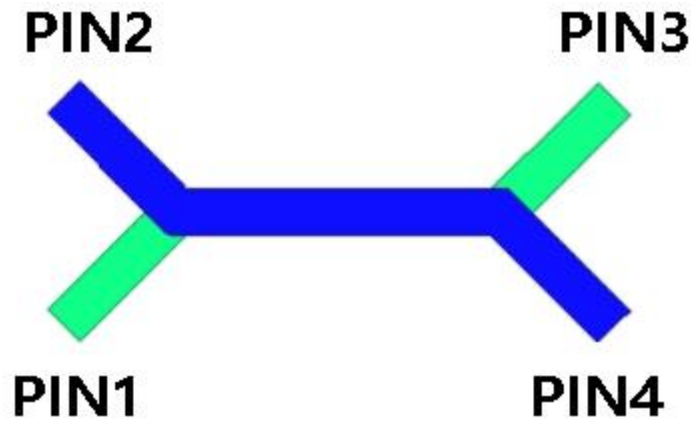
外形尺寸Outline Drawing:

Unit: mm(Inches)



端口配置表 Port Configuration Table:

Hybrid Coupler Pin Configuration



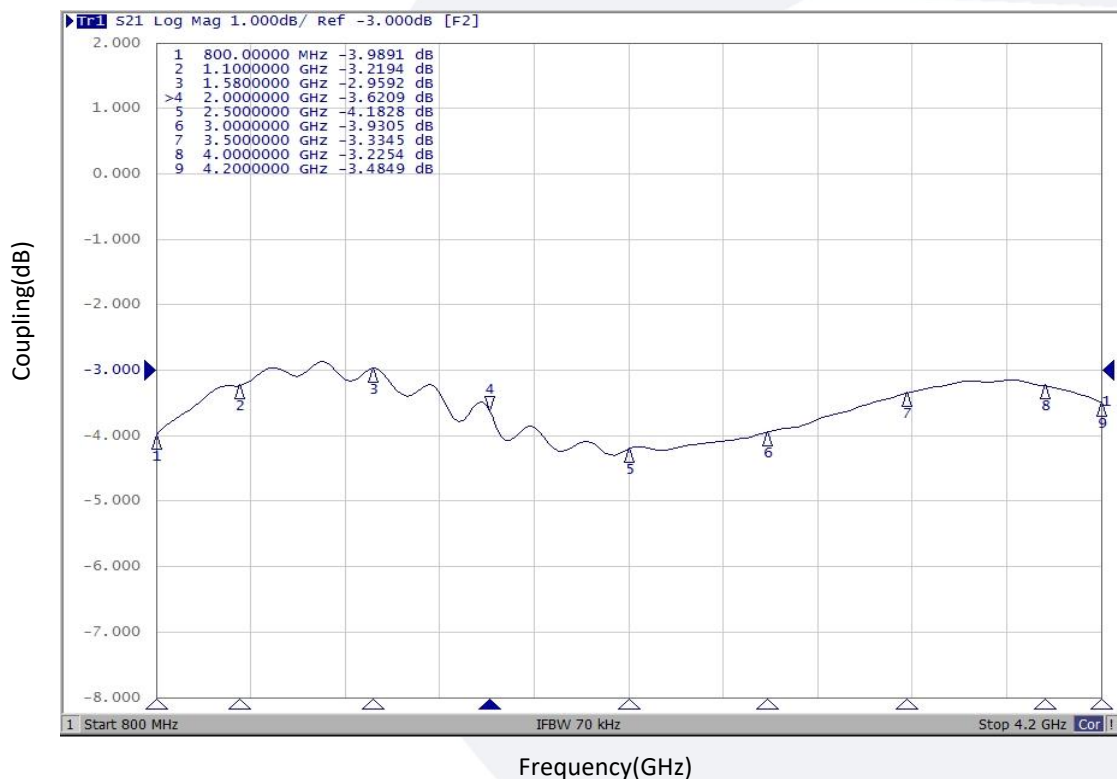
Configuration	Pin1	Pin2	Pin3	Pin4
Splitter	Input	$-3\text{dB} < \theta$	$-3\text{dB} < \theta - 90^\circ$	Isolated
Splitter	$-3\text{dB} < \theta$	Input	Isolated	$-3\text{dB} < \theta - 90^\circ$
Splitter	$-3\text{dB} < \theta - 90^\circ$	Isolated	Input	$-3\text{dB} < \theta$
Splitter	Isolated	$-3\text{dB} < \theta - 90^\circ$	$-3\text{dB} < \theta$	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	1.08
	Coupler	dB	1.23	1.24	1.26	1.25	1.12	1.12	1.11	1.12
	Transmission	dB	1.24	1.26	1.29	1.30	1.19	1.01	1.11	1.14
	Isolated	dB	1.25	1.27	1.29	1.28	1.13	1.14	1.10	1.06

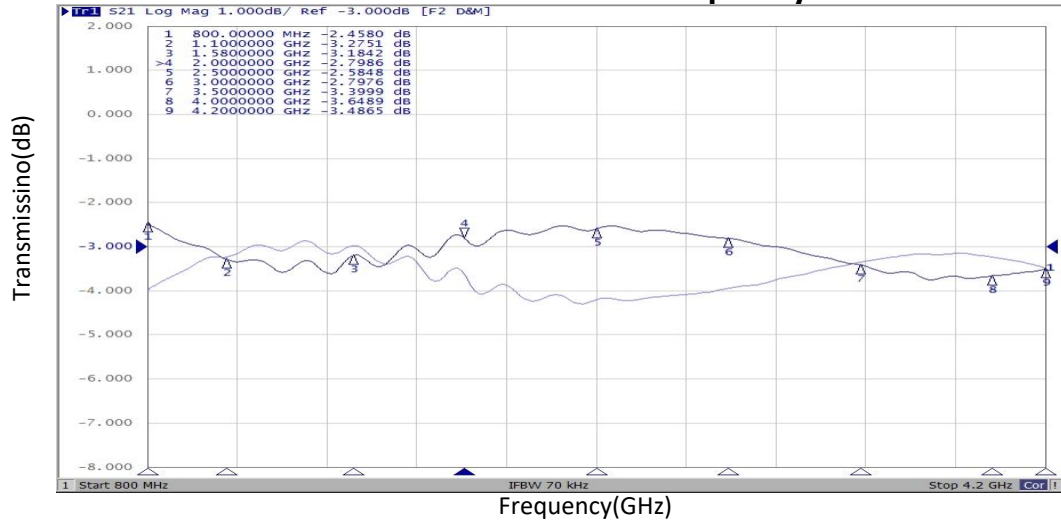
典型曲线 Typical Performance Data:

Coupling vs Frequency

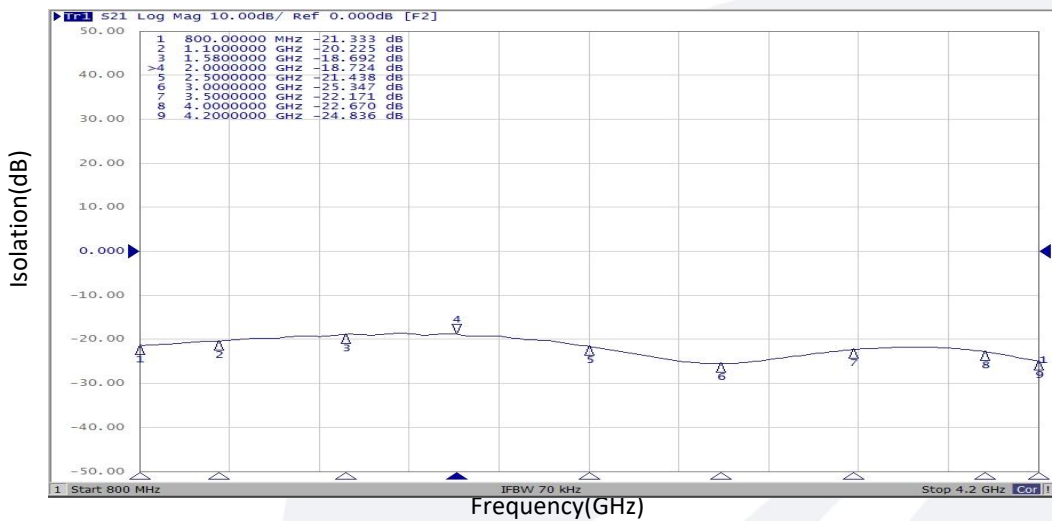


典型曲线 Typical Performance Data:

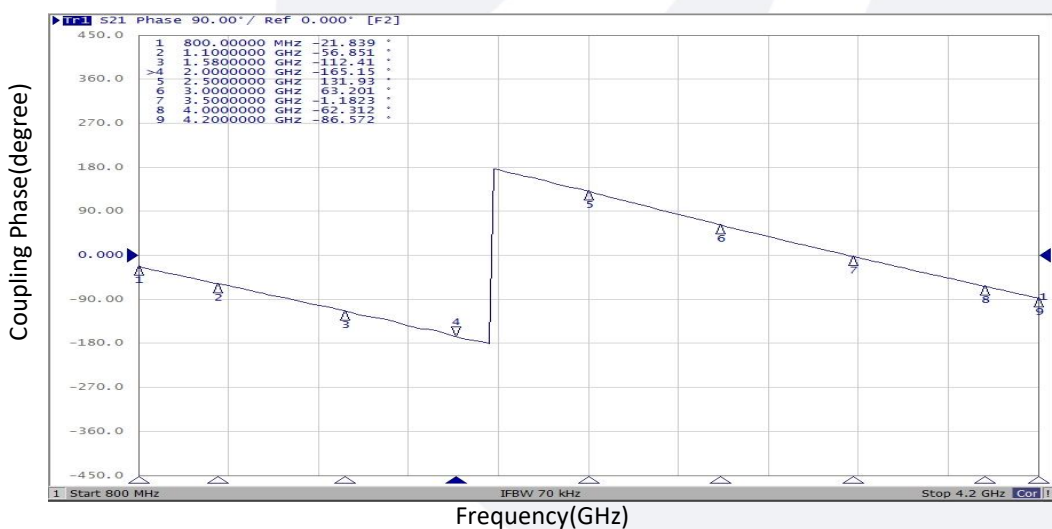
Transmission vs Frequency



Isolation vs Frequency

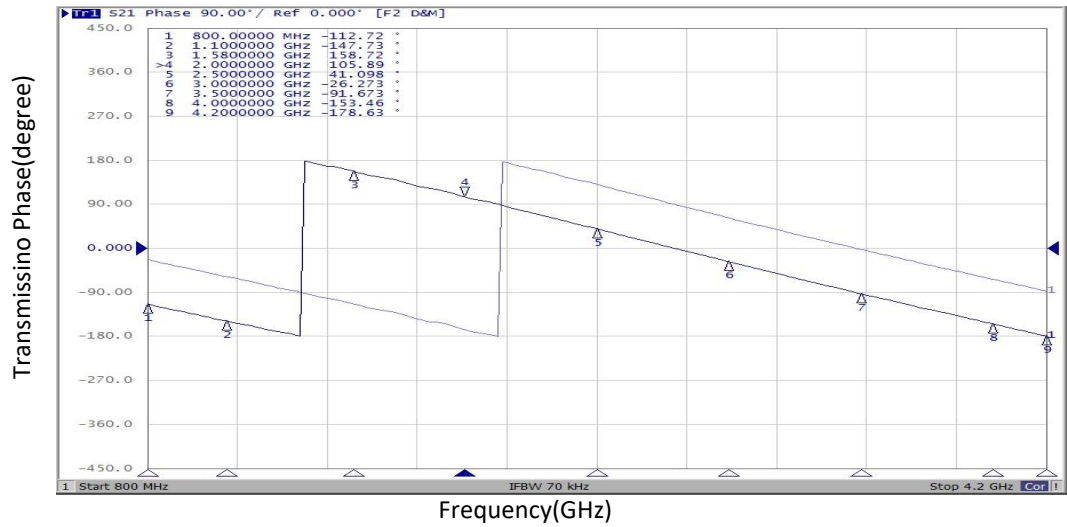


Coupling Phase vs Frequency

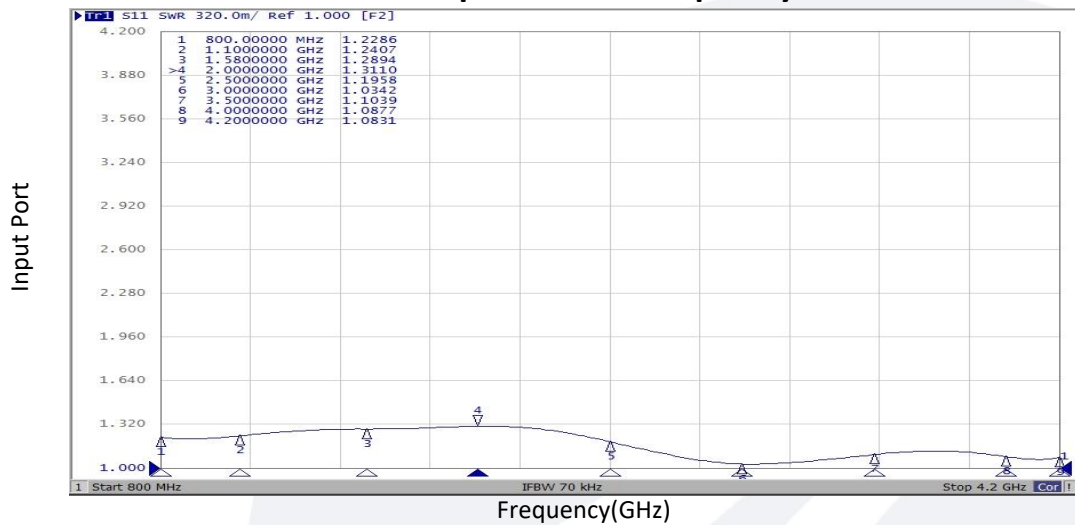


典型曲线 Typical Performance Data:

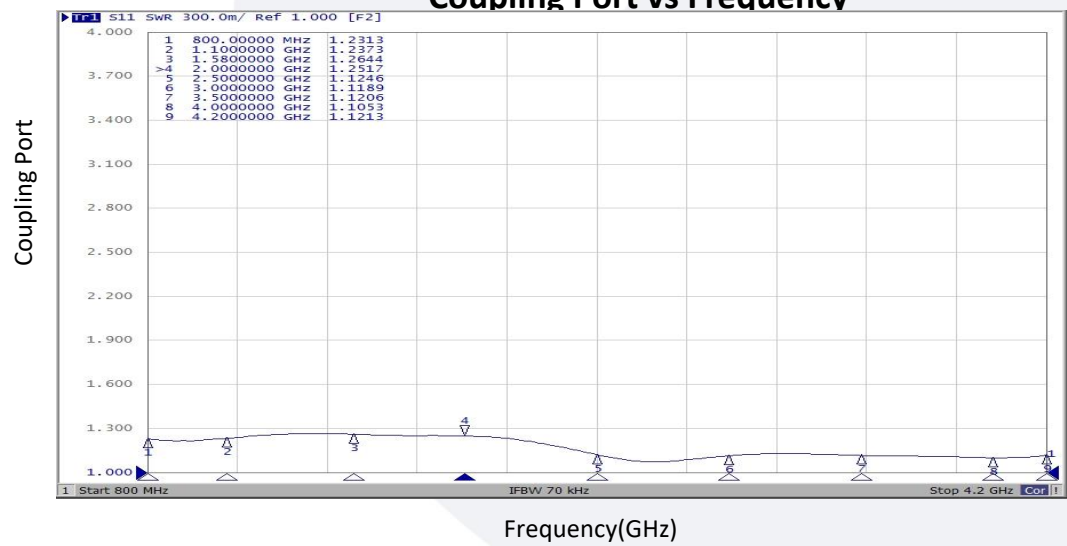
Transmission Phase vs Frequency



Input Port vs Frequency

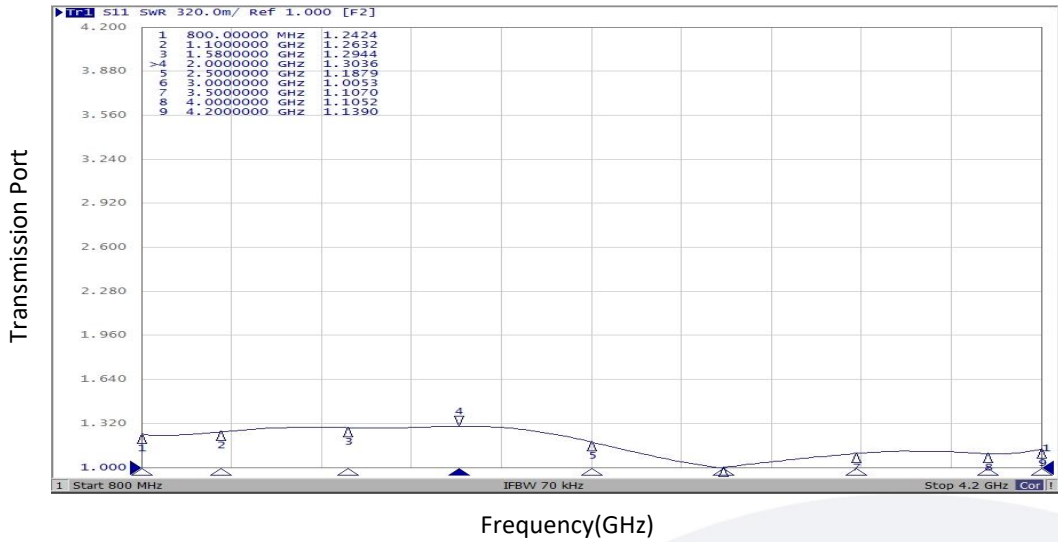


Coupling Port vs Frequency



典型曲线 Typical Performance Data:

Transmission Port vs Frequency



Isolation Port vs Frequency

