

Part No.: TBG-4080-3S-90-SMD

90 Degree 3dB Bridge

电气特性 Electrical:

工作频率 Frequency Range: 4000-8000MHz

耦合度Coupling : 3dB

插入损耗 Insertion Loss: 0.5dB Max

隔离度Isolation: -16.0dB Min

驻波 VSWR: 1.35:1 Max

幅度平衡 Amplitude Balance: ± 0.6 dB max

相位平衡Phase Balance: 90 ± 6 degree

耐功率 Power Handling: 150 Watt

阻抗 Impedance: 50 OHMS

机械特性 Mechanical:

温度范围Temperature Range: $-55^{\circ} \text{C} - +105^{\circ} \text{C}$

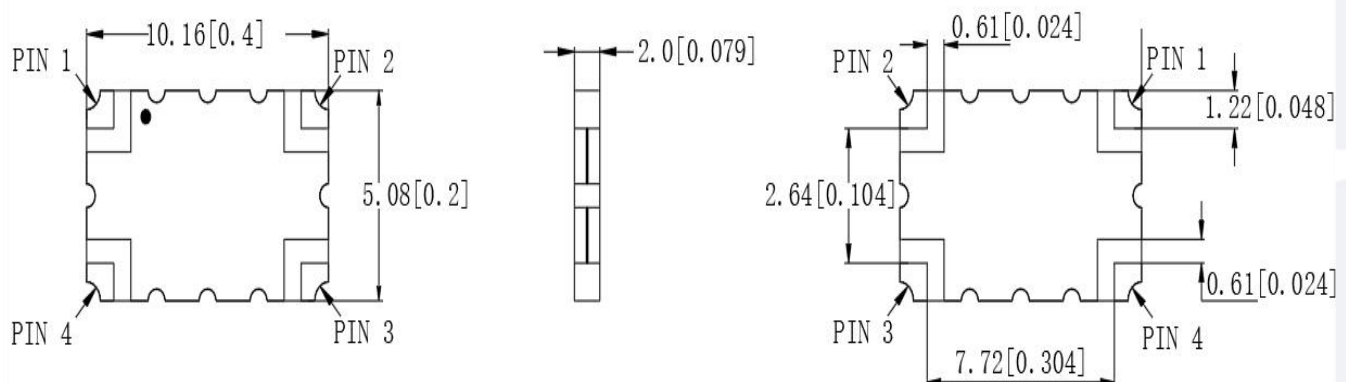
大小Size: 10.16mm*5.08mm

厚度Thickness: 2.0mm

相对湿度Relative Humidity: 0 ~ 90%

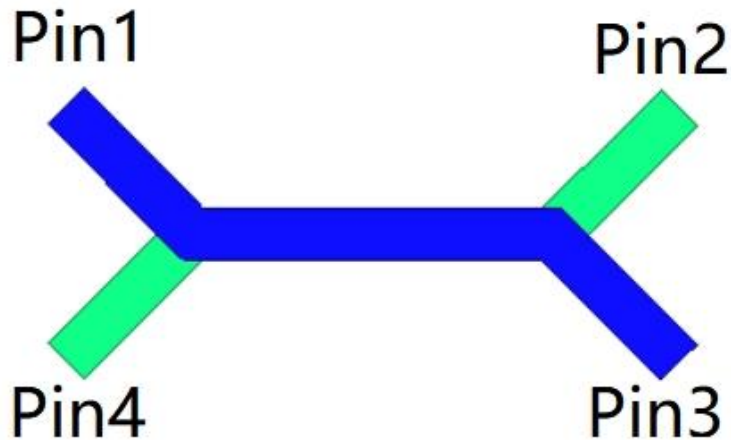
外形尺寸Outline Drawing:

Unit: mm(Inches)



端口配置表 Port Configuration Table:

Hybrid Coupler Pin Configuration



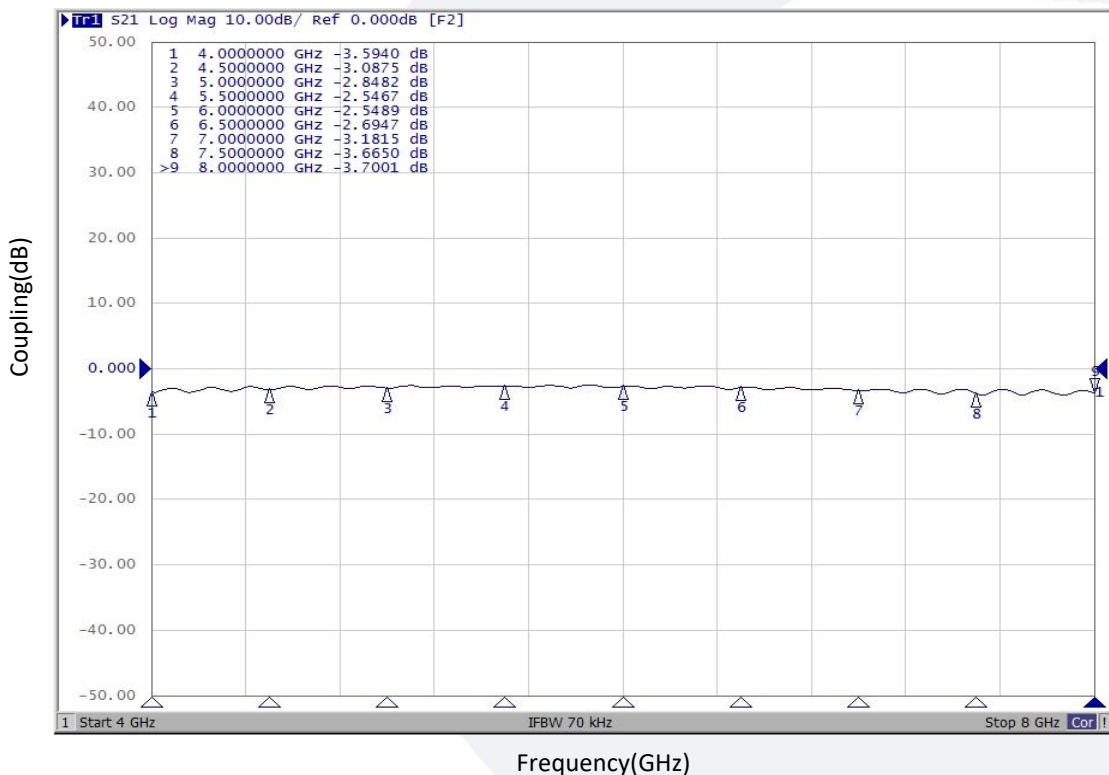
Configuration	Pin1	Pin2	Pin3	Pin4
Splitter	Input	Isolated	$-3dB < \theta - 90^\circ$	$-3dB < \theta$
Splitter	Isolated	Input	$-3dB < \theta$	$-3dB < \theta - 90^\circ$
Splitter	$-3dB < \theta - 90^\circ$	$-3dB < \theta$	Input	Isolated
Splitter	$-3dB < \theta$	$-3dB < \theta - 90^\circ$	Isolated	Input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

Typical Performance Data

Frequency	MHz	4000	4500	5000	5500	6000	6500	7000	7500	8000	
Coupling	dB	-3.59	-3.09	-2.85	-2.55	-2.55	-2.69	-3.18	-3.44	-3.70	
Transmission	dB	-3.18	-3.24	-3.49	-3.51	-3.63	-3.68	-3.81	-3.55	-3.05	
Insertion Loss	dB	-0.32	-0.16	-0.16	-0.03	-0.09	-0.18	-0.48	-0.48	-0.37	
Isolation	dB	-16.07	-17.51	-18.50	-18.61	-20.13	-22.62	-24.45	-21.70	-17.45	
Phase	degree	88.86	90.18	91.61	91.86	91.03	89.22	85.72	84.96	87.48	
Return Loss	Input	dB	1.22	1.27	1.28	1.27	1.25	1.25	1.26	1.29	1.34
	Coupler	dB	1.31	1.32	1.28	1.23	1.19	1.18	1.20	1.23	1.29
	Transmission	dB	1.22	1.28	1.30	1.28	1.25	1.22	1.21	1.22	1.26
	Isolated	dB	1.18	1.19	1.17	1.16	1.17	1.19	1.20	1.24	1.26

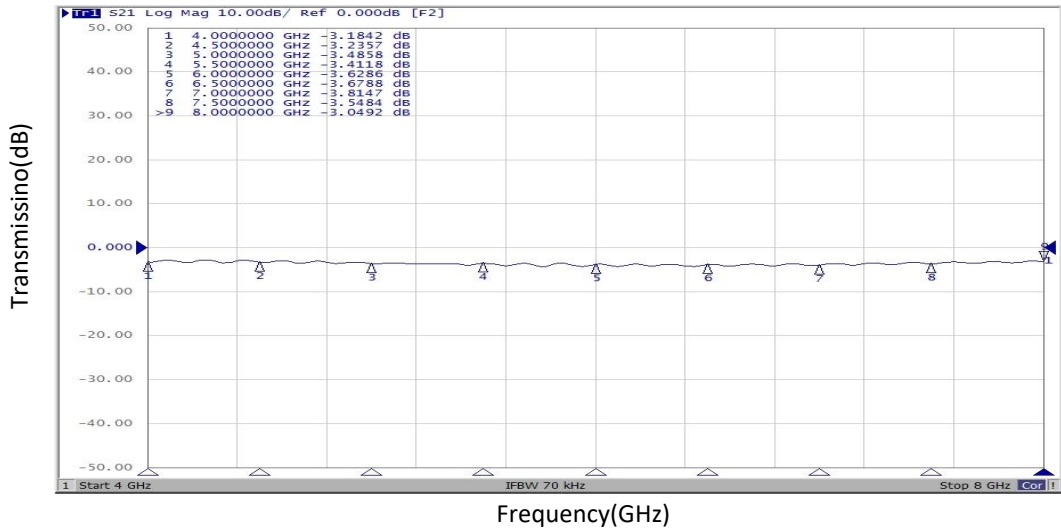
典型曲线 Typical Performance Data:

Coupling vs Frequency

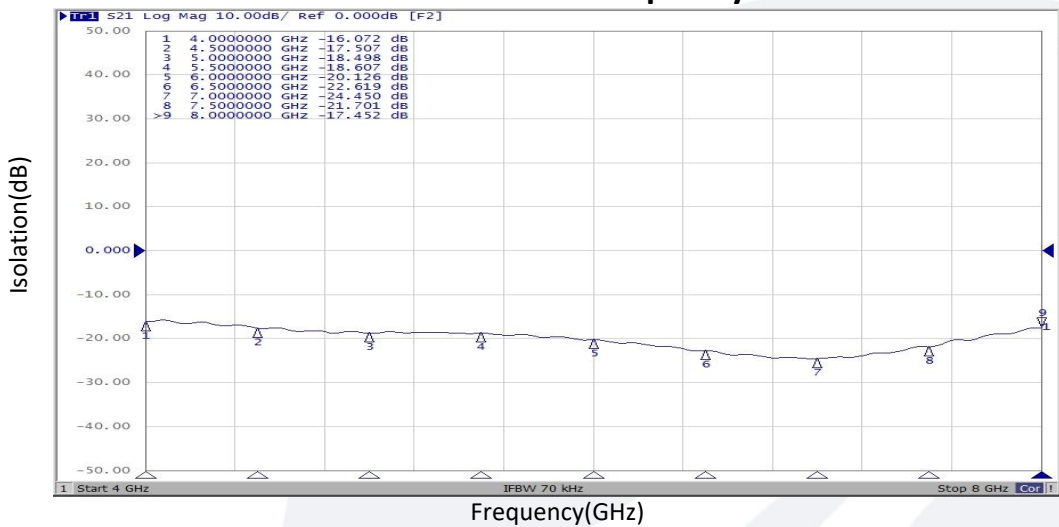


典型曲线 Typical Performance Data:

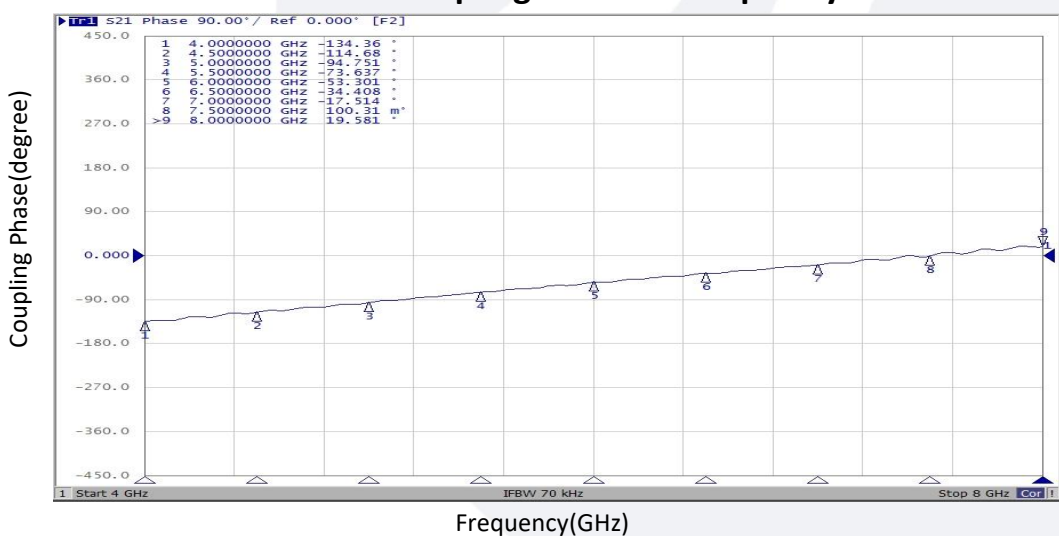
Transmission vs Frequency



Isolation vs Frequency

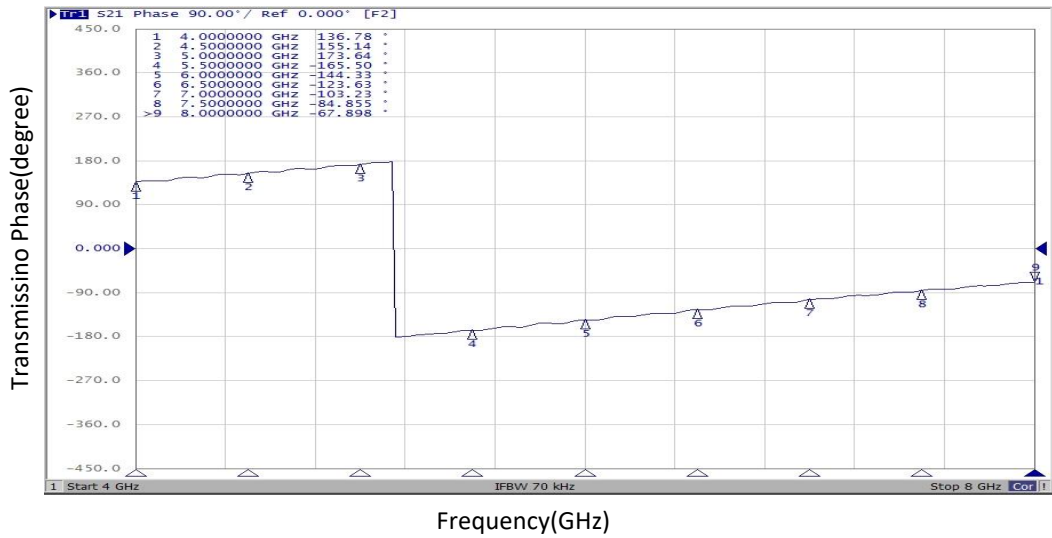


Coupling Phase vs Frequency

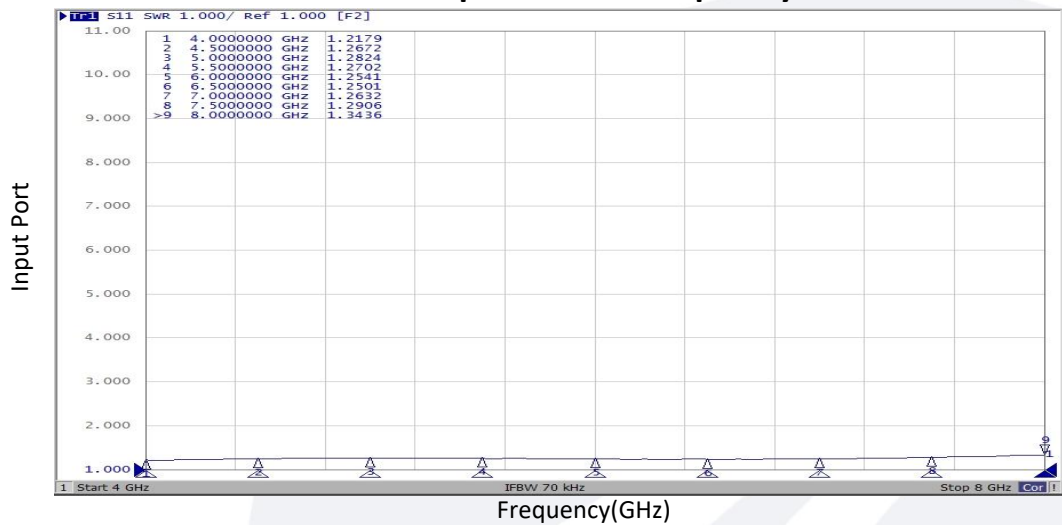


典型曲线 Typical Performance Data:

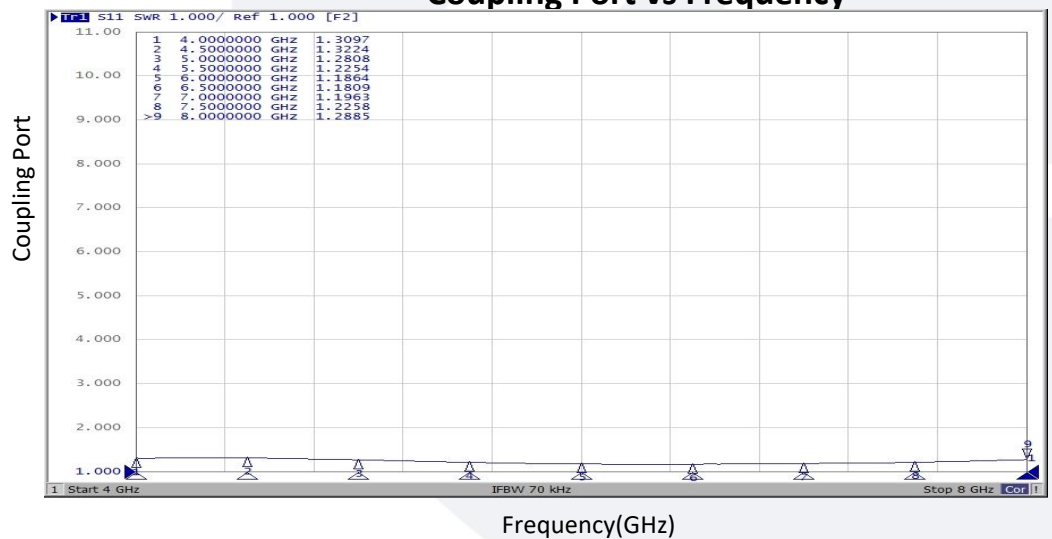
Transmission Phase vs Frequency



Input Port vs Frequency

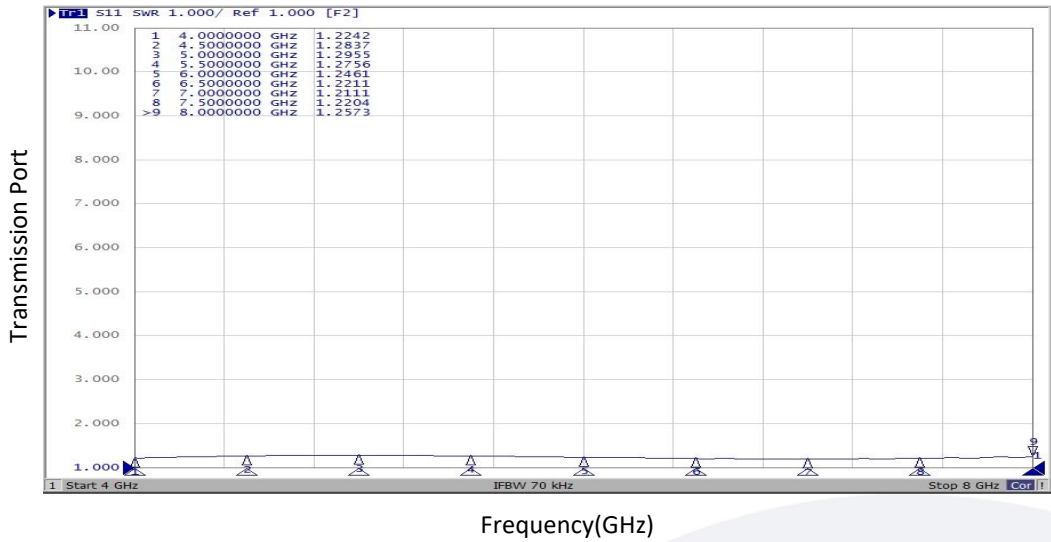


Coupling Port vs Frequency



典型曲线 Typical Performance Data:

Transmission Port vs Frequency



Isolation Port vs Frequency

