

**Part No.: TBG-2062-3S-90-SMD**

## 90 Degree 3dB Bridge

### 电气特性 Electrical:

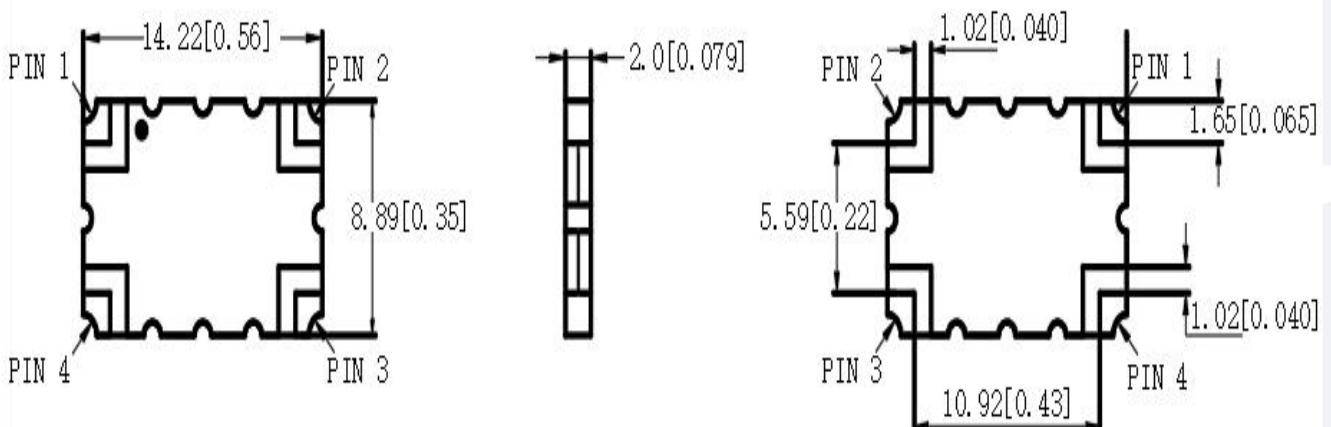
工作频率 Frequency Range:	2000-6200MHz
耦合度Coupling :	3dB
插入损耗 Insertion Loss:	0.3dB Max
隔离度Isolation:	19.0dB Min
驻波 VSWR:	1.35:1 Max
幅度平衡 Amplitude Balance:	$\pm 0.85$ dB max
相位平衡Phase Balance:	$90 \pm 5.0$ degree
耐功率 Power Handling:	250 Watt
阻抗 Impedance:	50 OHMS

### 机械特性 Mechanical:

温度范围Temperature Range:	$-55^{\circ}$ C - $+105^{\circ}$ C
大小Size:	14.22mm*8.89mm
厚度Thickness:	2.0mm
相对湿度Relative Humidity:	0 ~ 90%

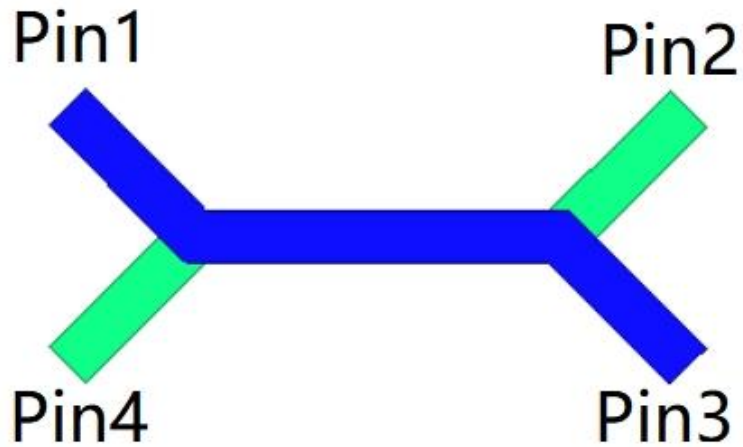
### 外形尺寸Outline Drawing:

Unit: mm(Inches)



**端口配置表 Port Configuration Table:**

Hybrid Coupler Pin Configuration



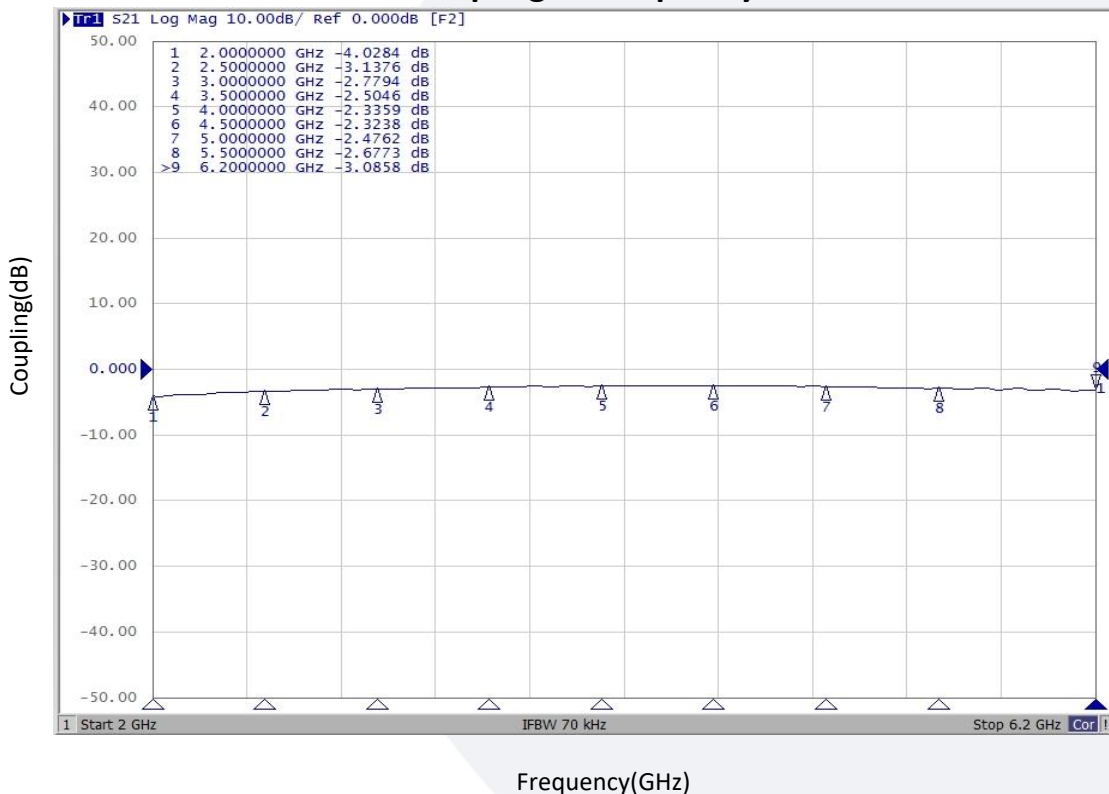
Configuration	Pin1	Pin2	Pin3	Pin4
Splitter	Input	Isolated	$-3\text{dB} < \theta - 90^\circ$	$-3\text{dB} < \theta$
Splitter	Isolated	Input	$-3\text{dB} < \theta$	$-3\text{dB} < \theta - 90^\circ$
Splitter	$-3\text{dB} < \theta - 90^\circ$	$-3\text{dB} < \theta$	Input	Isolated
Splitter	$-3\text{dB} < \theta$	$-3\text{dB} < \theta - 90^\circ$	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	2000	2500	3000	3500	4000	4500	5000	5500	6200	
Coupling	dB	-4.03	-3.14	-2.78	-2.50	-2.34	-2.32	-2.48	-2.68	-3.09	
Transmission	dB	-2.36	-2.78	-3.33	-3.77	-3.92	-3.90	-3.66	-3.80	-3.50	
Insertion Loss	dB	-0.19	-0.01	-0.05	-0.13	-0.13	-0.11	-0.07	-0.24	-0.29	
Isolation	dB	-20.88	-22.06	-24.62	-28.67	-31.48	-26.48	-22.23	-20.27	-19.19	
Phase	degree	87.51	87.61	88.84	89.49	89.19	88.64	90.27	93.72	85.41	
Return Loss	Input	dB	1.27	1.28	1.21	1.11	1.01	1.11	1.25	1.35	1.35
	Coupler	dB	1.26	1.19	1.11	1.04	1.06	1.14	1.24	1.30	1.25
	Transmission	dB	1.30	1.23	1.15	1.11	1.16	1.23	1.28	1.27	1.23
	Isolated	dB	1.28	1.22	1.15	1.08	1.08	1.16	1.25	1.30	1.17

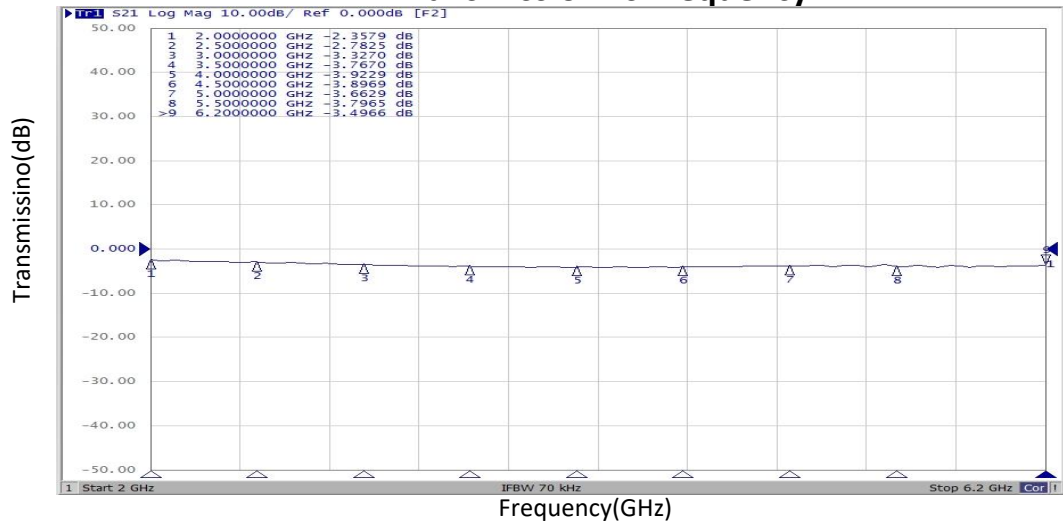
### 典型曲线 Typical Performance Data:

### Coupling vs Frequency

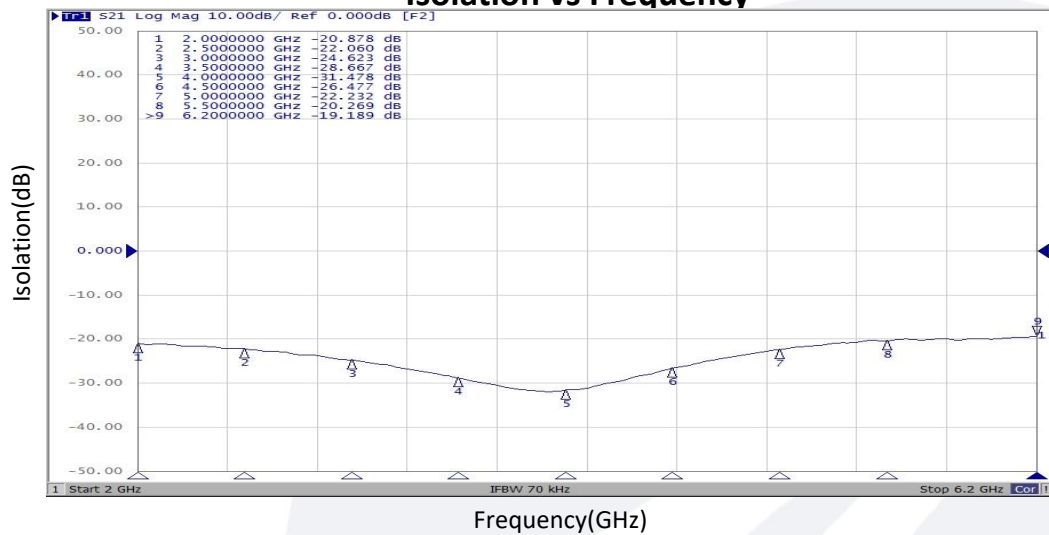


典型曲线 Typical Performance Data:

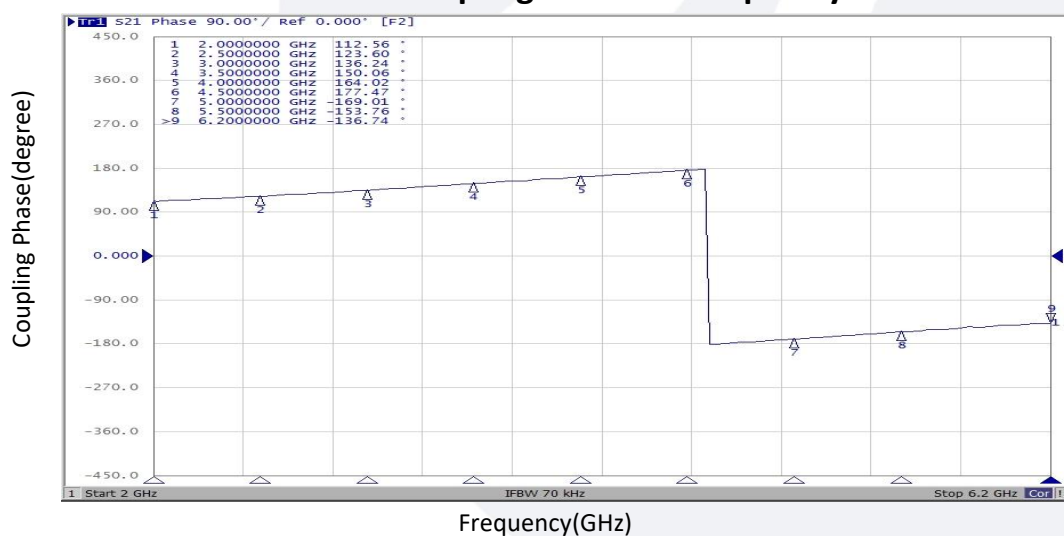
**Transmission vs Frequency**



**Isolation vs Frequency**

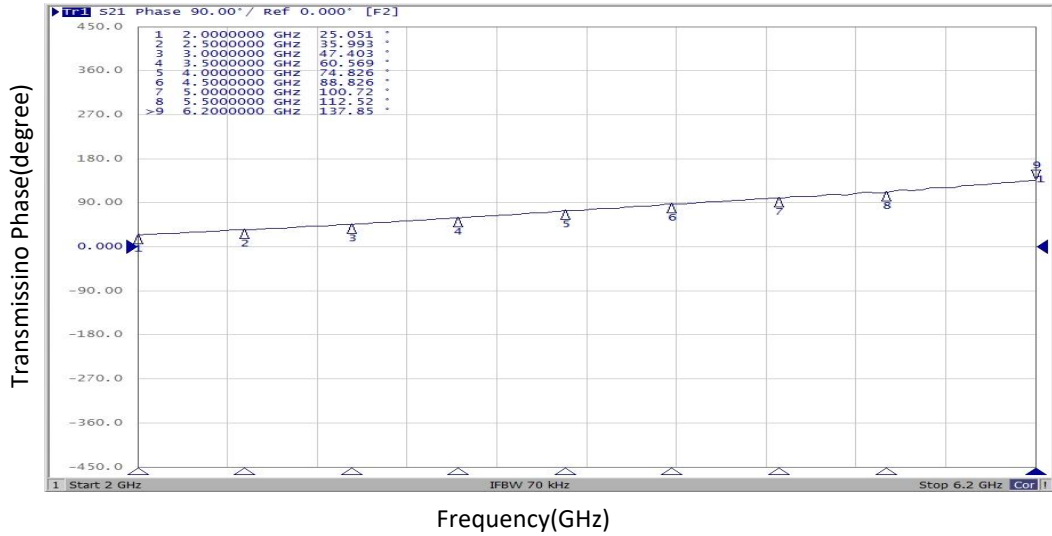


**Coupling Phase vs Frequency**



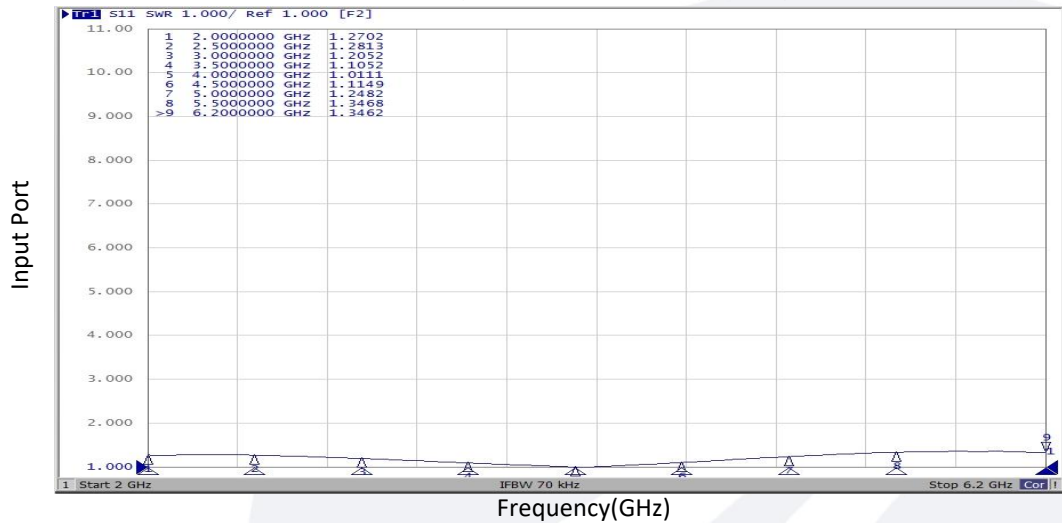
典型曲线 Typical Performance Data:

Transmission Phase vs Frequency



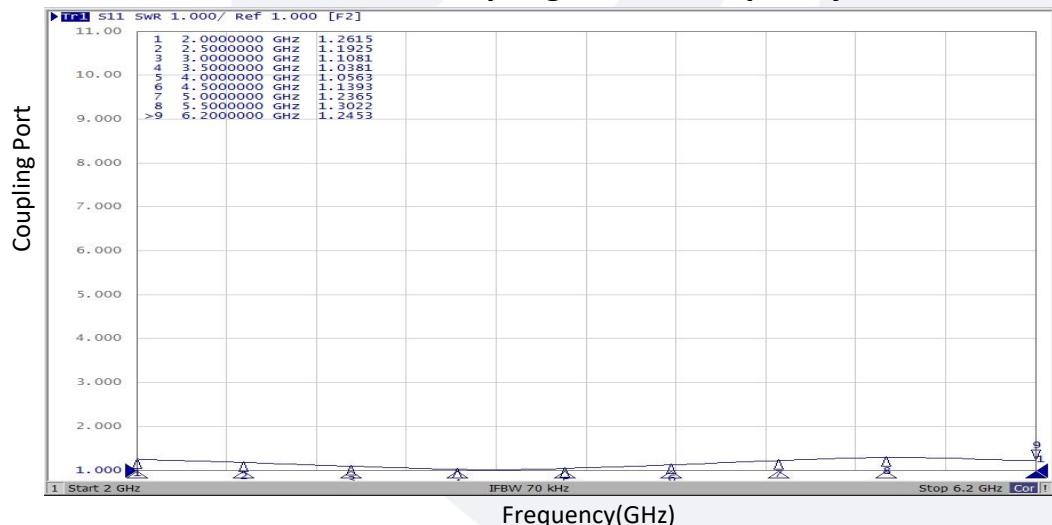
Frequency(GHz)

Input Port vs Frequency



Frequency(GHz)

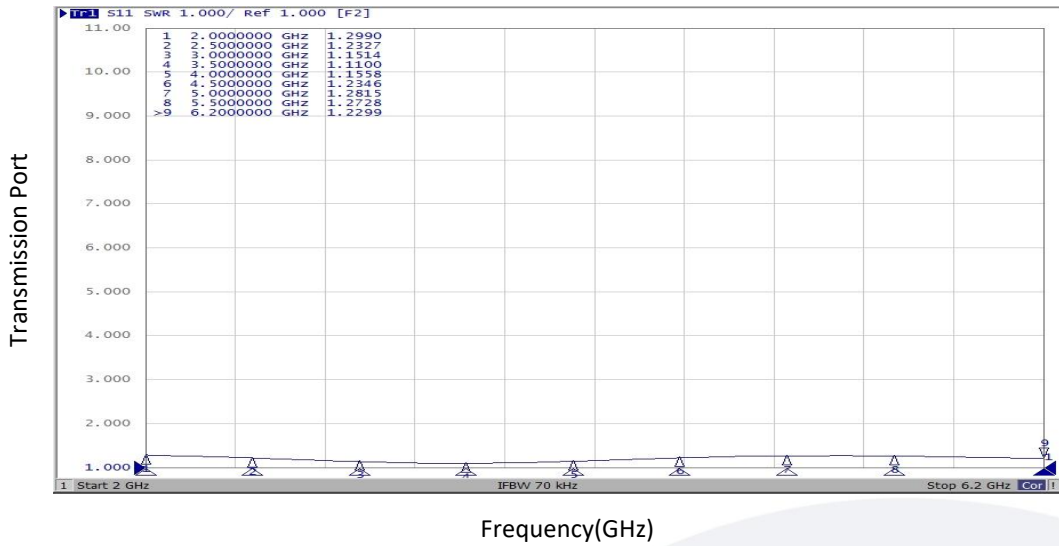
Coupling Port vs Frequency



Frequency(GHz)

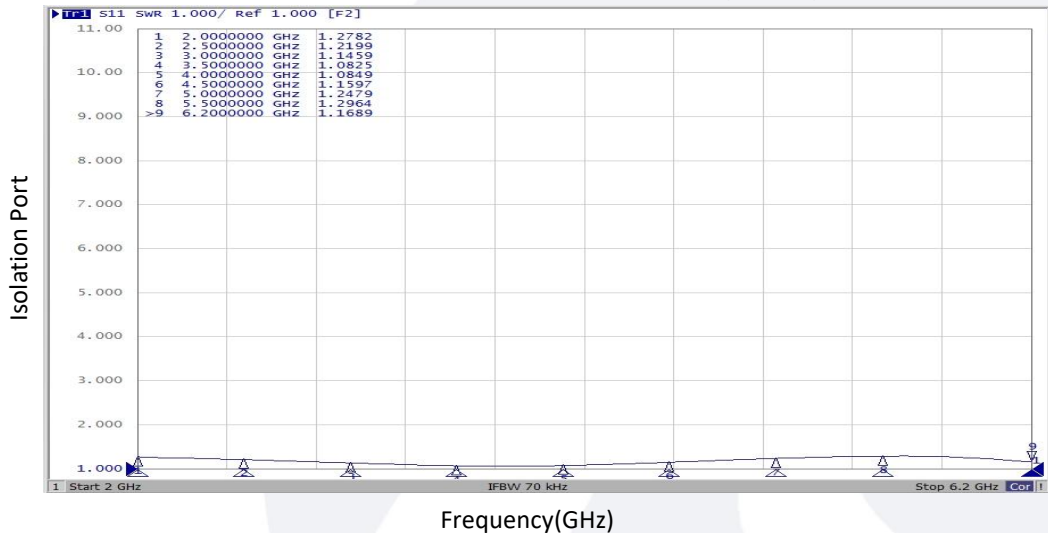
典型曲线 Typical Performance Data:

Transmission Port vs Frequency



Frequency(GHz)

Isolation Port vs Frequency



Frequency(GHz)