

Part No.: TBG-3085-3S-90-SMD

90 Degree 3dB Bridge

电气特性 Electrical:

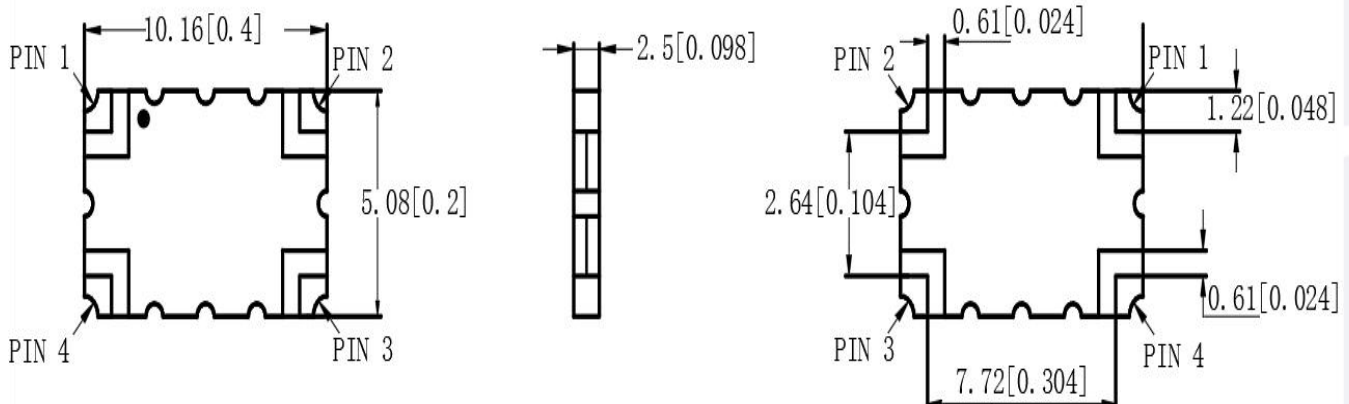
工作频率 Frequency Range:	3000-8500MHz
耦合度 Coupling :	3dB
插入损耗 Insertion Loss:	0.55dB Max
隔离度 Isolation:	-15dB Min
回拨损耗 Return Loss:	-15dB Max
幅度平衡 Amplitude Balance:	± 1.2 dB max
相位平衡 Phase Balance:	90 ± 7.0 degree
耐功率 Power Handling:	300 Watt
阻抗 Impedance:	50 OHMS

机械特性 Mechanical:

温度范围 Temperature Range:	-55° C - $+105^{\circ}$ C
大小 Size:	10.16mm*5.08mm
厚度 Thickness:	2.5mm
相对湿度 Relative Humidity:	0 ~ 90%

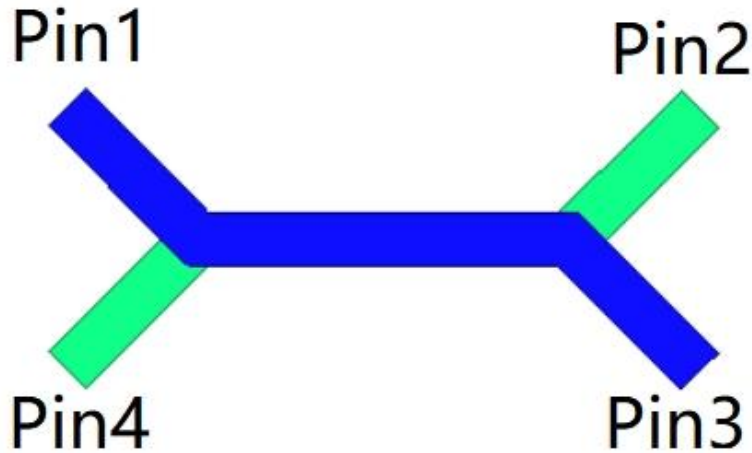
外形尺寸 Outline Drawing:

Unit: mm(Inches)



端口配置表 Port Configuration Table:

Hybrid Coupler Pin Configuration



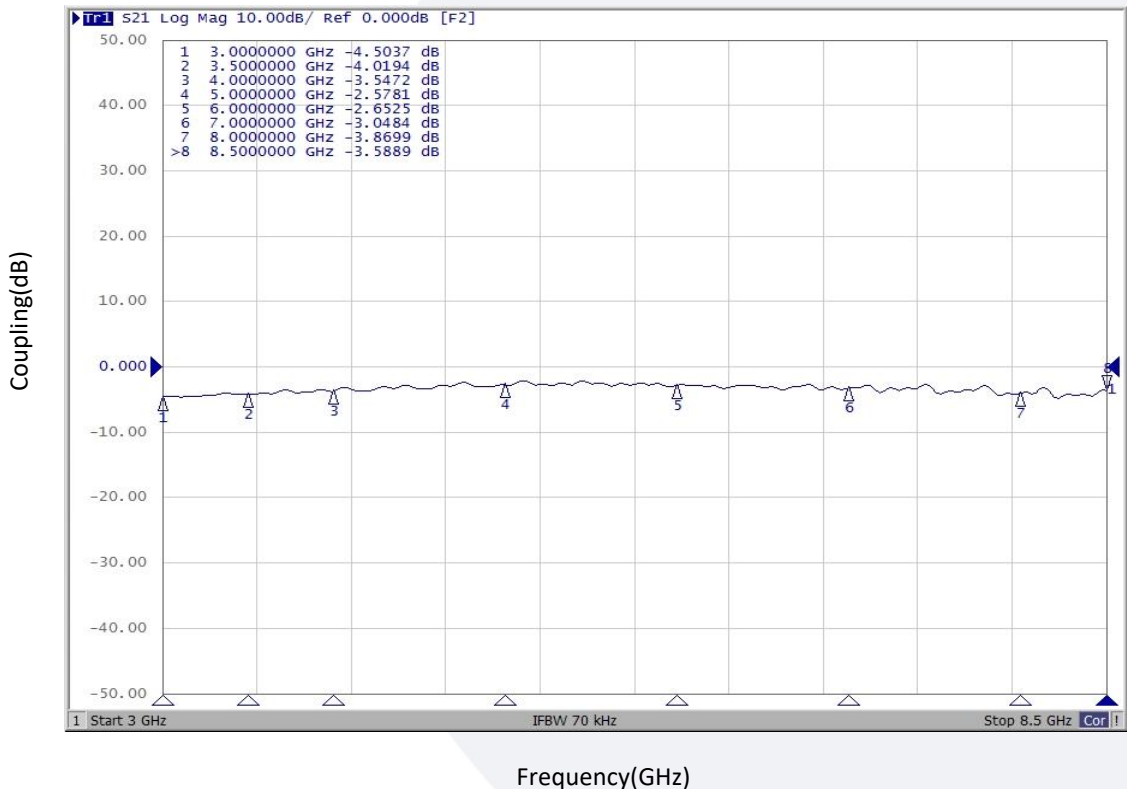
Configuration	Pin1	Pin2	Pin3	Pin4
Splitter	Input	Isolated	$-3\text{dB} < \theta - 90^\circ$	$-3\text{dB} < \theta$
Splitter	Isolated	Input	$-3\text{dB} < \theta$	$-3\text{dB} < \theta - 90^\circ$
Splitter	$-3\text{dB} < \theta - 90^\circ$	$-3\text{dB} < \theta$	Input	Isolated
Splitter	$-3\text{dB} < \theta$	$-3\text{dB} < \theta - 90^\circ$	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	3000	3500	4000	5000	6000	7000	8000	8500	
Coupling	dB	-4.50	-4.02	-3.55	-2.58	-2.65	-3.05	-3.87	-3.53	
Transmission	dB	-2.10	-2.58	-3.00	-3.70	-4.23	-3.61	-3.61	-4.51	
Insertion Loss	dB	-0.29	-0.29	0.27	0.14	-0.43	-0.32	-0.24	-0.98	
Isolation	dB	-18.76	-19.34	-20.11	-22.82	-22.57	-19.06	-17.03	-21.35	
Phase	degree	87.76	91.68	83.95	94.72	83.62	84.77	93.69	90.71	
Return Loss	Input	dB	-15.54	-17.25	-19.34	-21.84	-27.90	-25.36	-17.18	1.15
	Coupler	dB	-15.01	-16.95	-18.93	-19.88	-22.02	-21.23	-18.52	1.27
	Transmission	dB	-15.64	-17.81	-20.57	-23.17	-24.60	-22.24	-17.16	1.27
	Isolated	dB	-16.05	-17.84	-20.27	-26.69	-26.15	-19.57	-17.37	1.21

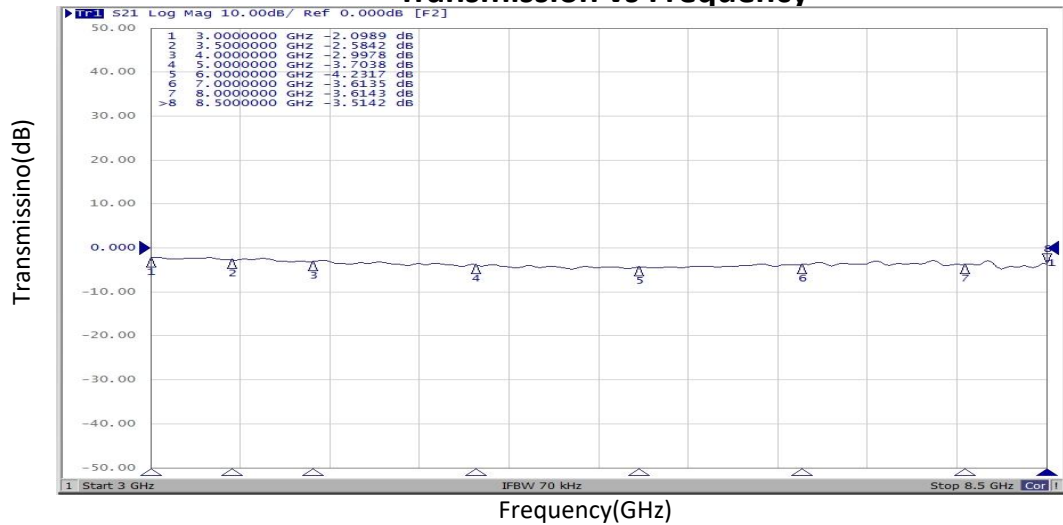
典型曲线 Typical Performance Data:

Coupling vs Frequency

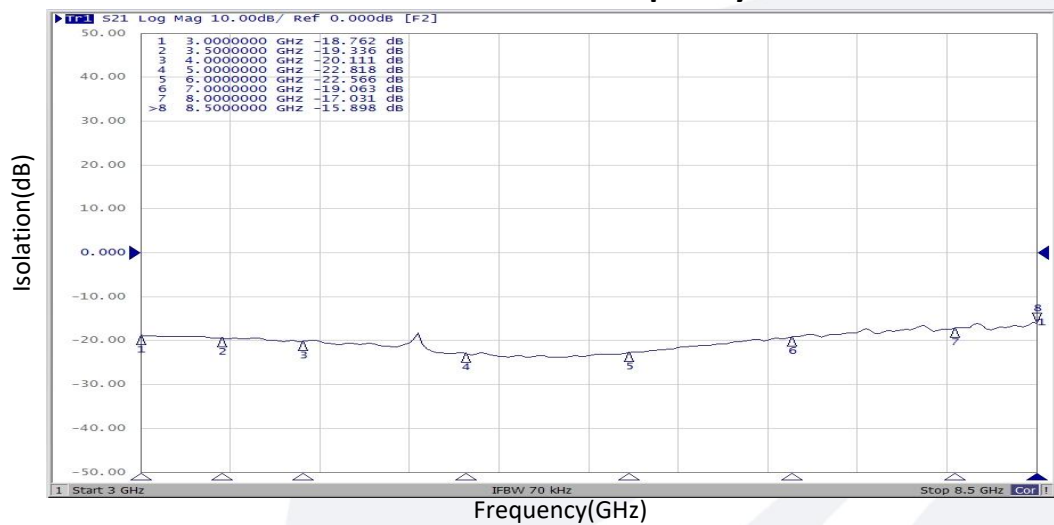


典型曲线 Typical Performance Data:

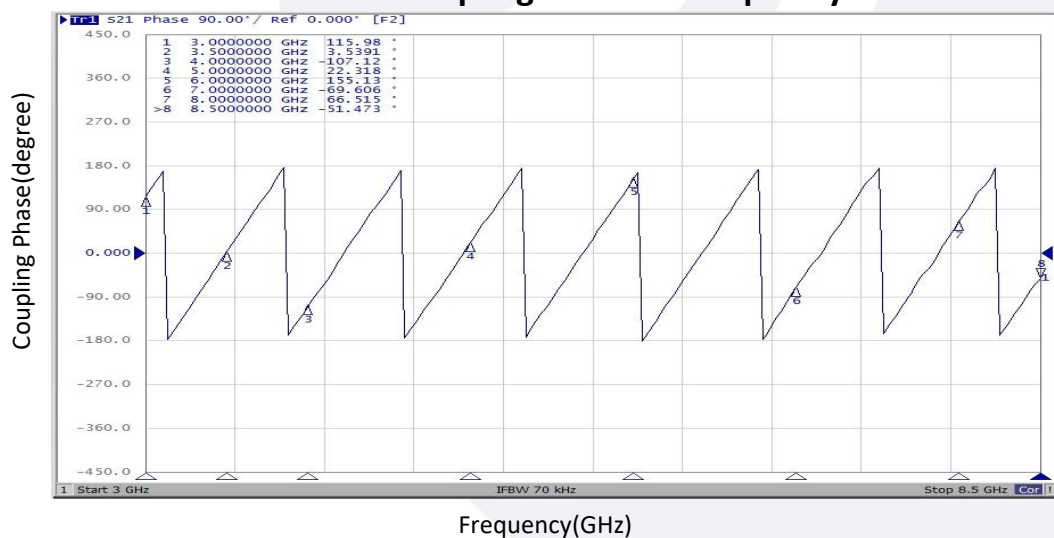
Transmission vs Frequency



Isolation vs Frequency

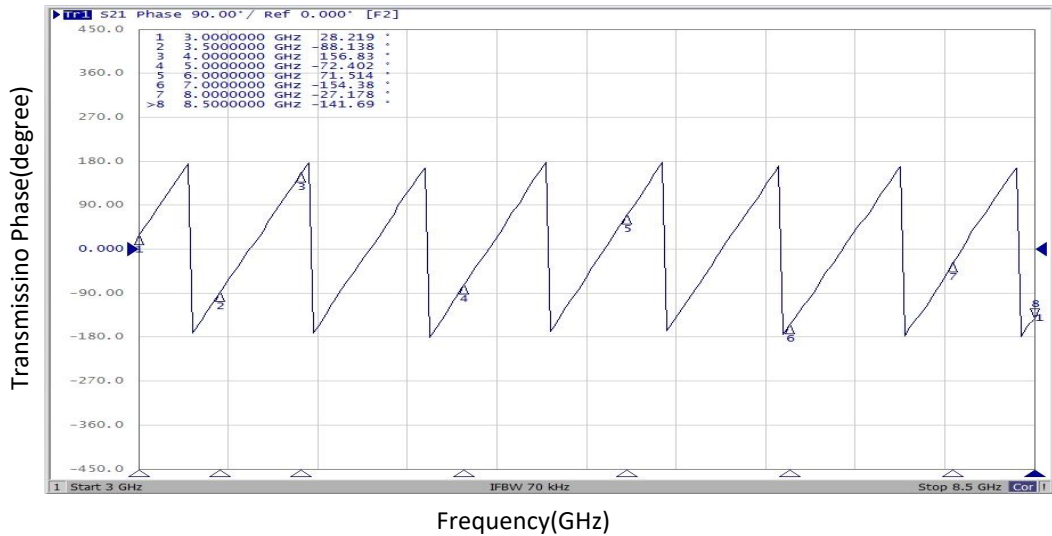


Coupling Phase vs Frequency



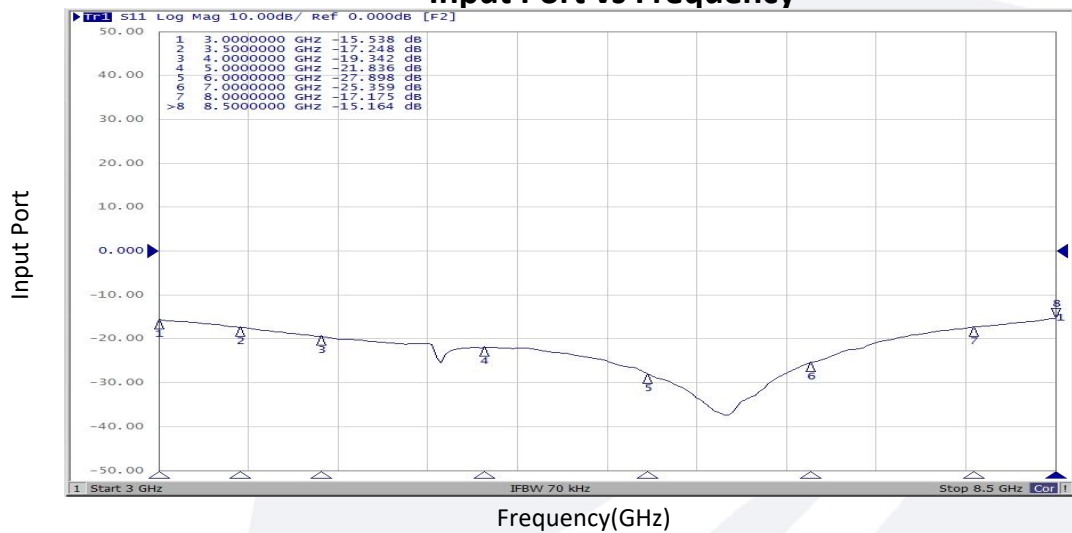
典型曲线 Typical Performance Data:

Transmission Phase vs Frequency



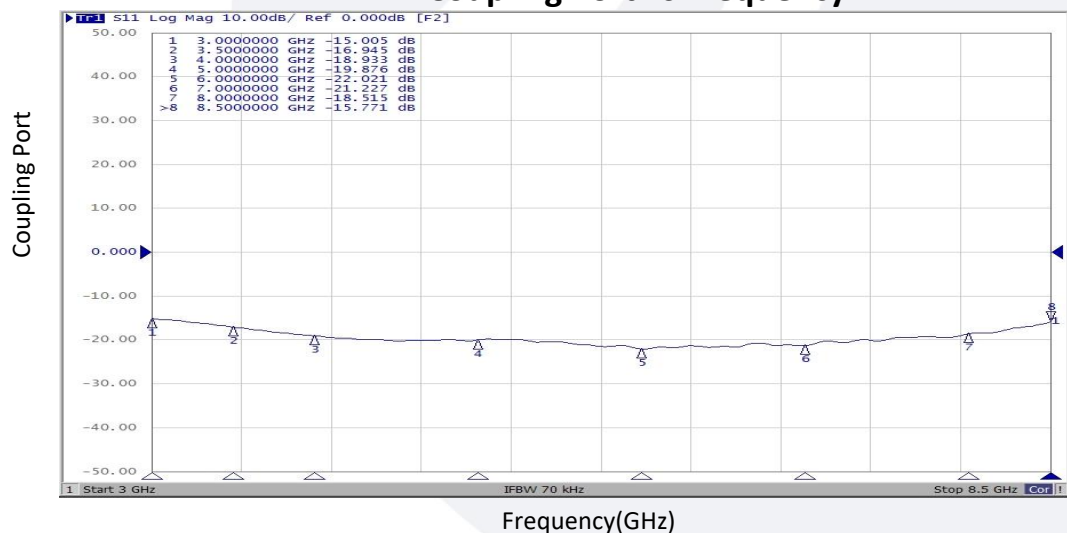
Frequency(GHz)

Input Port vs Frequency



Frequency(GHz)

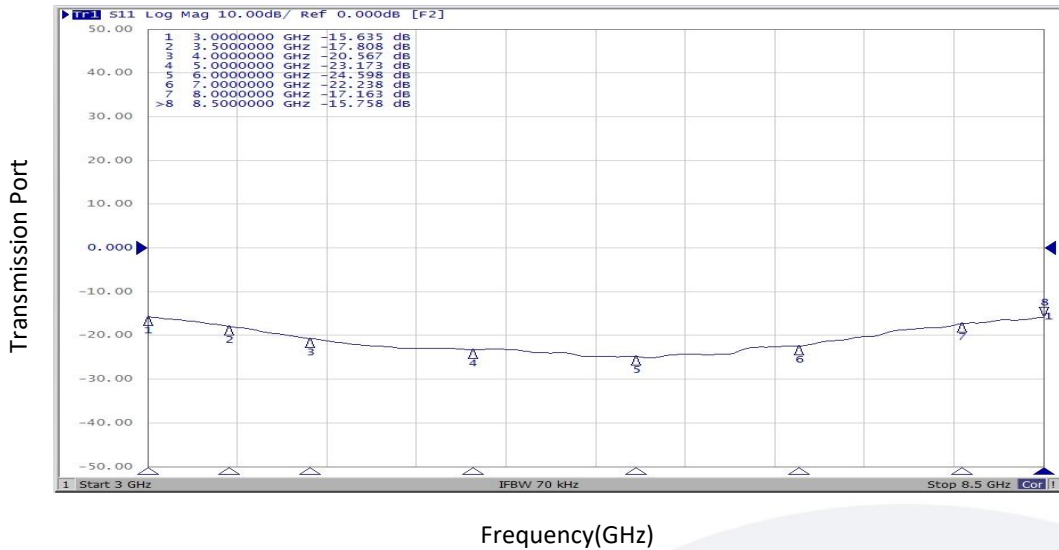
Coupling Port vs Frequency



Frequency(GHz)

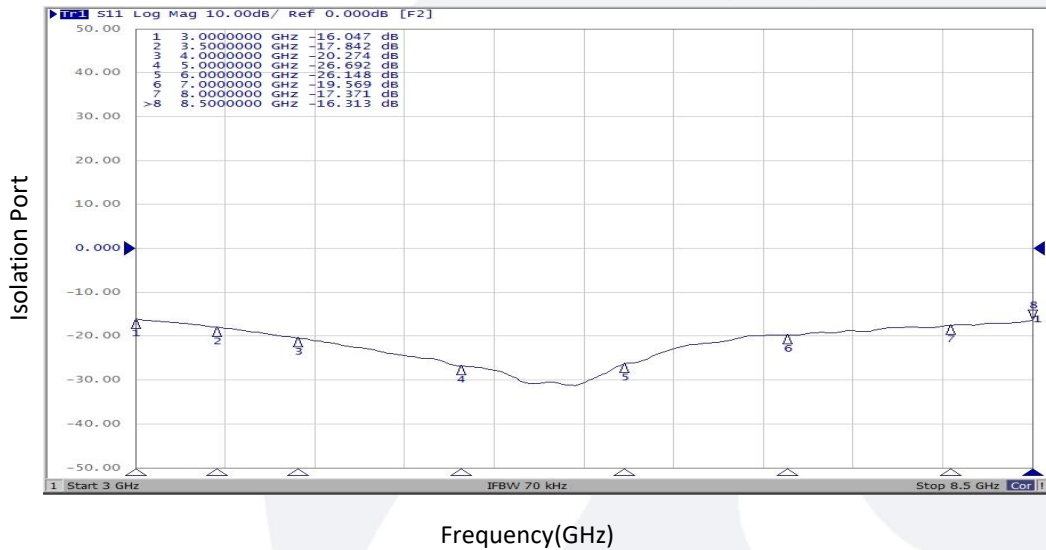
典型曲线 Typical Performance Data:

Transmission Port vs Frequency



Frequency(GHz)

Isolation Port vs Frequency



Frequency(GHz)