泰莱微波
Talent Microwave
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

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

90 Degree 3dB Bridge

Electrical:

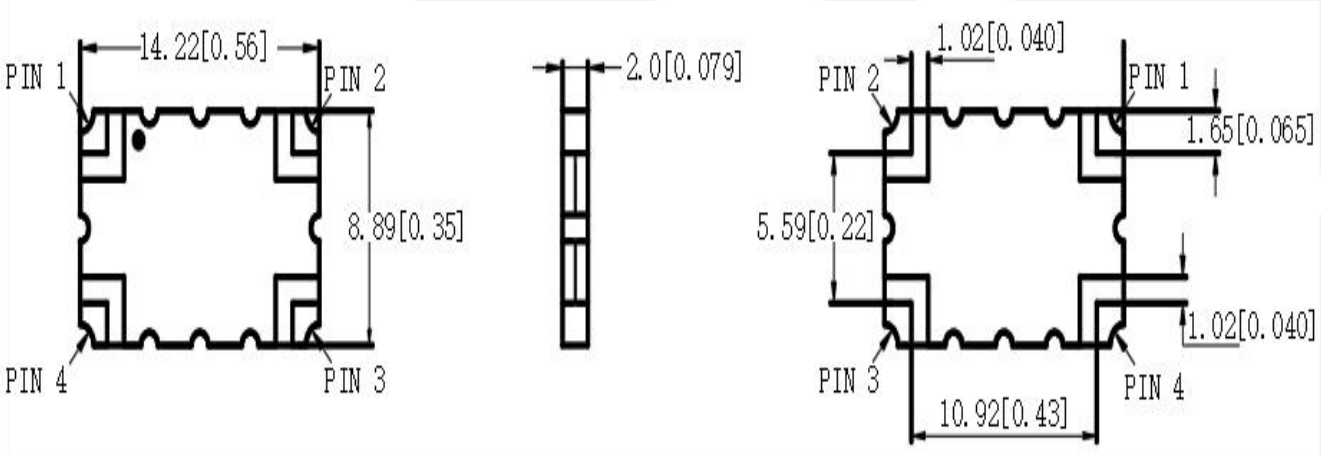
Frequency Range:	2000-6200MHz
Coupling :	3dB
Insertion Loss:	0.3dB Max
Isolation:	19.0dB Min
VSWR:	1.35:1 Max
Amplitude Balance:	±0.85dB max
Phase Balance:	90±5.0 degree
Power Handling:	100 Watt
Impedance:	50 OHMS

Mechanical:

Temperature Range:	-55° C - +105° C
Size:	14.22mm*8.89mm
Thickness:	2.0mm
Relative Humidity:	0 ~ 90%

Outline Drawing:

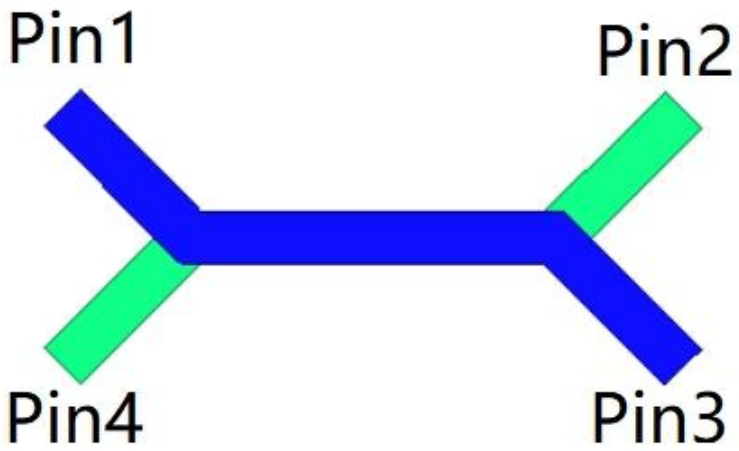
Unit: mm(Inches)



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Port Configuration Table:

Hybrid Coupler Pin Configuration



Configuration	Pin1	Pin2	Pin3	Pin4
Splitter	Input	Isolated	-3dB＜θ-90°	-3dB＜θ
Splitter	Isolated	Input	-3dB＜θ	-3dB＜θ-90°
Splitter	-3dB＜θ-90°	-3dB＜θ	Input	Isolated
Splitter	-3dB＜θ	-3dB＜θ-90°	Isolated	Input
Combiner	A＜θ-90°	A＜θ	Isolated	Output
Combiner	A＜θ	A＜θ-90°	Output	Isolated
Combiner	Isolated	Output	A＜θ-90°	A＜θ
Combiner	Output	Isolated	A＜θ	A＜θ-90°

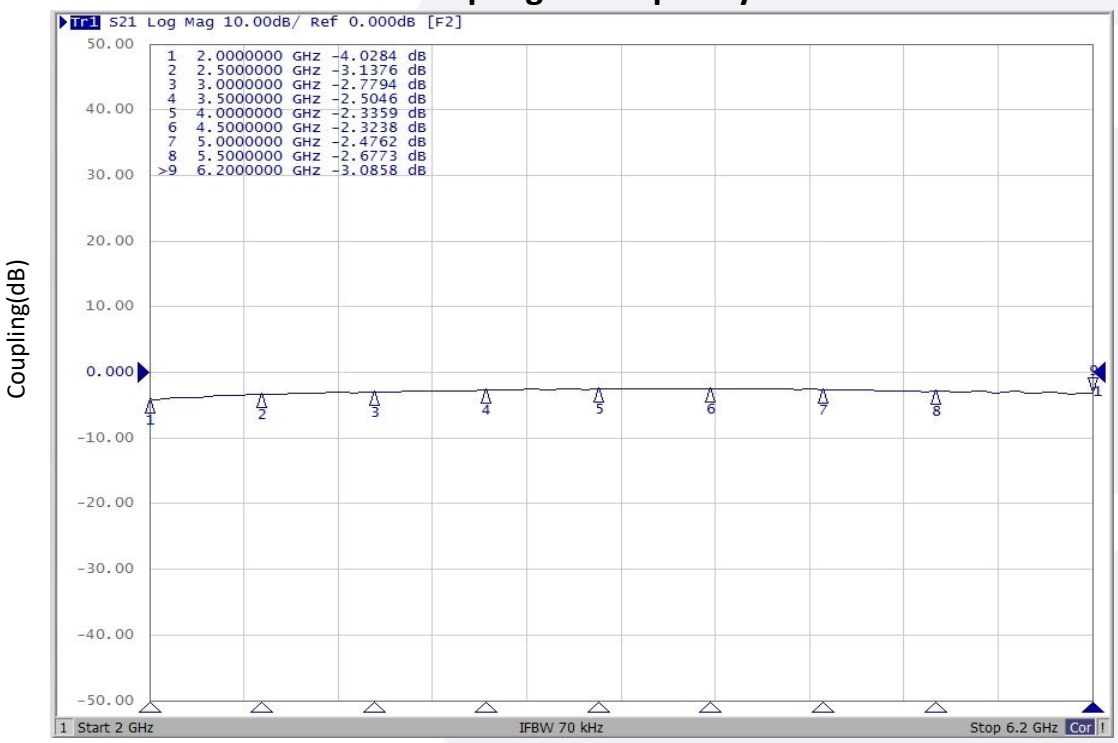
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Typical Performance Data

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	-3148	-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

Typical Performance Data:

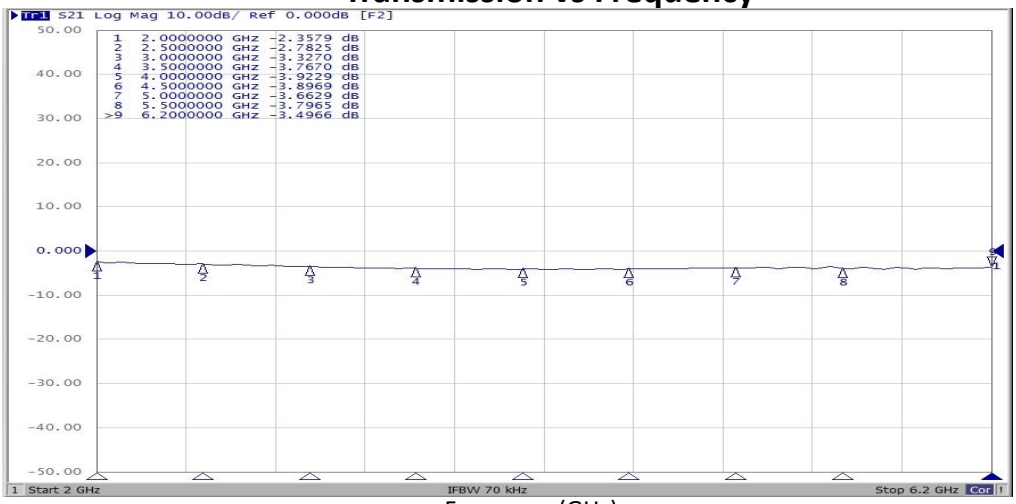
Coupling vs Frequency



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Typical Performance Data:

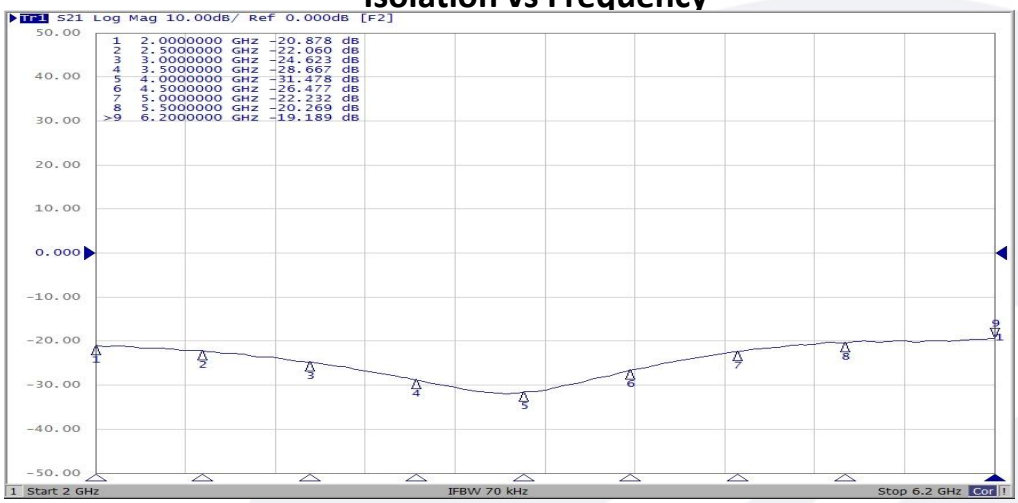
Transmission vs Frequency



Transmissino(dB)

Frequency(GHz)

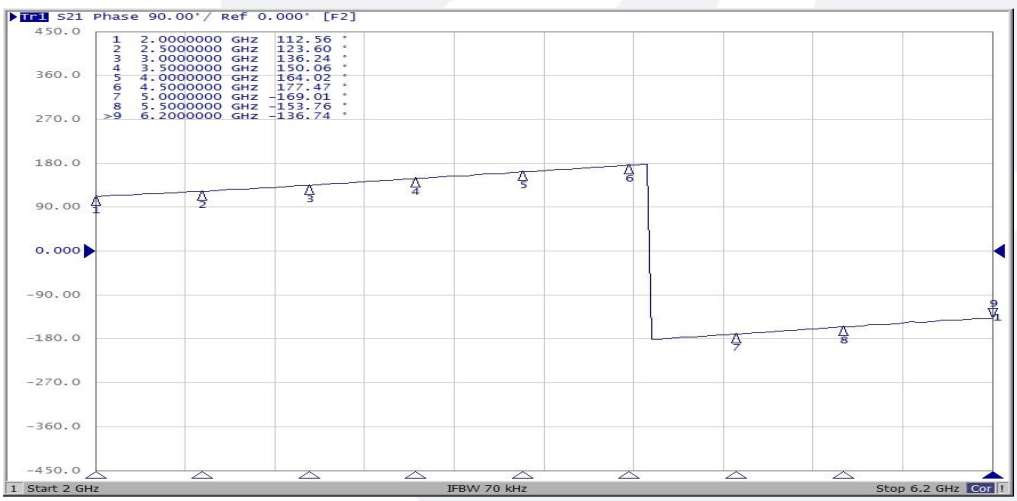
Isolation vs Frequency



Isolation(dB)

Frequency(GHz)

Coupling Phase vs Frequency



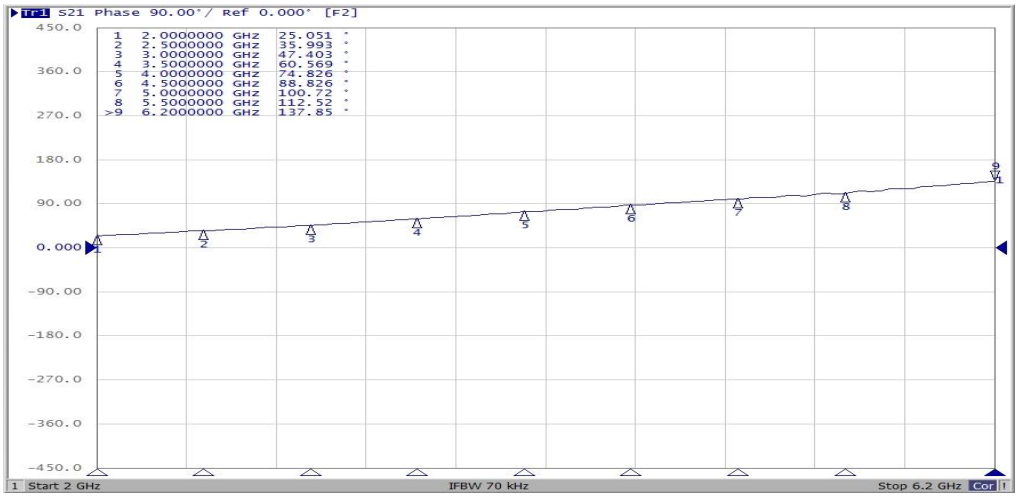
Coupling Phase(degree)

Frequency(GHz)

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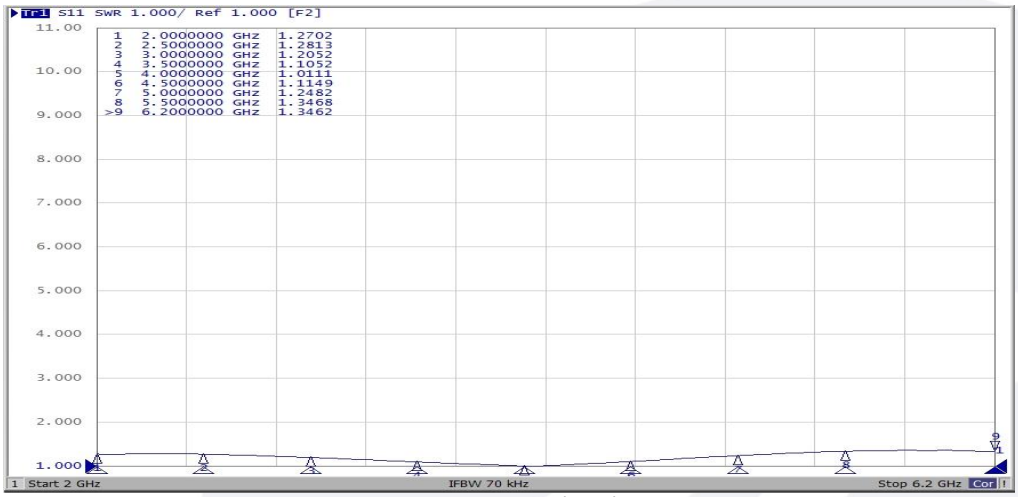
Transmission Phase vs Frequency



Transmissino Phase(degree)

Frequency(GHz)

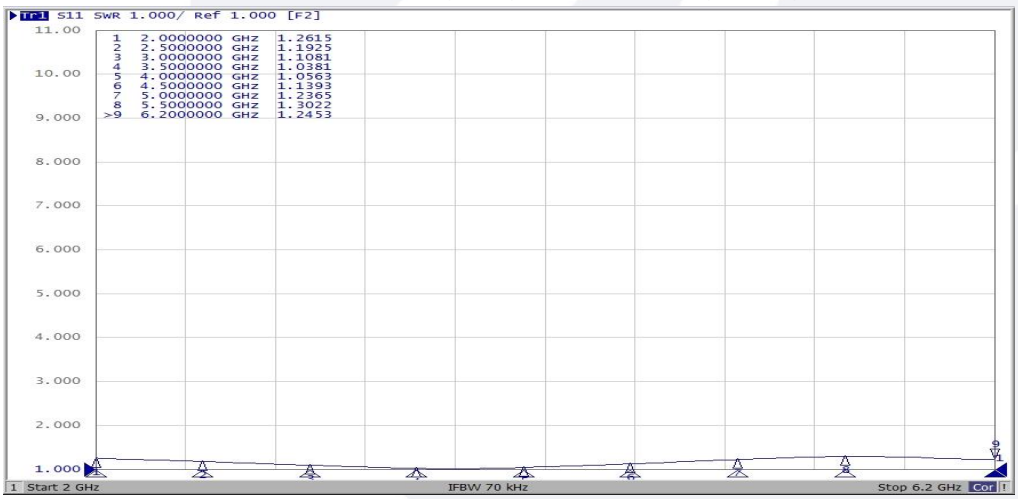
Input Port vs Frequency



Input Port

Frequency(GHz)

Coupling Port vs Frequency



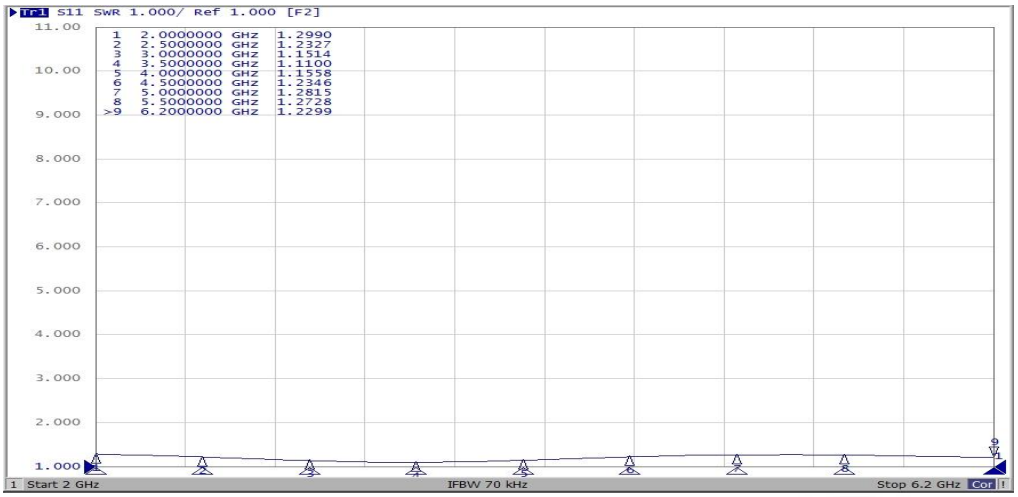
Coupling Port

Frequency(GHz)

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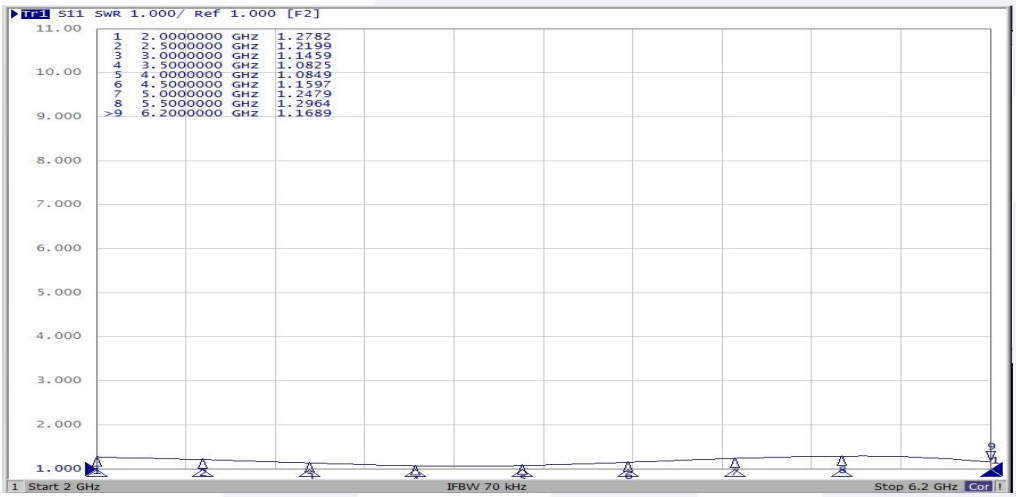
Transmission Port vs Frequency



Transmission Port

Frequency(GHz)

Isolation Port vs Frequency



Isolation Port

Frequency(GHz)