

Part No.: TURTBG-08103S90SMD

90 Degree 3dB Bridge

电气特性 Electrical:

工作频率 Frequency Range:	80-1000MHz
耦合度Coupling :	3dB
插入损耗 Insertion Loss:	1.0dB Max
隔离度Isolation:	20dB Min
驻波 VSWR:	1.38:1 Max
幅度平衡 Amplitude Balance:	$\pm 1.0\text{dB max}$
相位平衡Phase Balance:	$90 \pm 2.5 \text{ degree}$
耐功率 Power Handling:	300 Watt
阻抗 Impedance:	50 OHMS

机械特性 Mechanical:

温度范围Temperature Range:	$-55^{\circ} \text{ C} - +105^{\circ} \text{ C}$
大小Size:	82mm*42mm
厚度Thickness:	4.3mm
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	$-3\text{dB} < \theta < 90^\circ$	$-3\text{dB} < \theta$	Isolated
Splitter	$-3\text{dB} < \theta < 90^\circ$	Input	Isolated	$-3\text{dB} < \theta$
Splitter	$-3\text{dB} < \theta$	Isolated	Input	$-3\text{dB} < \theta < 90^\circ$
Splitter	Isolated	$-3\text{dB} < \theta$	$-3\text{dB} < \theta < 90^\circ$	Input
Combiner	Isolated	$-3\text{dB} < \theta < 90^\circ$	$-3\text{dB} < \theta$	Output
Combiner	$-3\text{dB} < \theta < 90^\circ$	Isolated	Output	$-3\text{dB} < \theta$
Combiner	$-3\text{dB} < \theta$	Output	Isolated	$-3\text{dB} < \theta < 90^\circ$
Combiner	Output	$-3\text{dB} < \theta$	$-3\text{dB} < \theta < 90^\circ$	Isolated

Typical Performance Data

Frequency		MHz	80	138	275	410	560	690	840	960	1000
Coupling		dB	-4.05	-2.79	-4.47	-3.04	-4.51	-3.35	-5.12	-3.53	-3.84
Transmission		dB	-2.46	-3.81	-2.60	-4.04	-2.99	-4.20	-3.12	-4.51	-4.09
Insertion Loss		dB	-0.24	-0.28	-0.51	-0.51	-0.71	-0.73	-0.99	-0.98	-0.95
Isolation		dB	-49.00	-35.73	-26.11	-37.33	-30.31	-26.33	-23.56	-21.35	-20.97
Phase		degree	90.07	90.51	90.06	90.38	90.66	90.51	90.58	90.71	92.33
Return Loss	Input(P1)	dB	1.02	1.03	1.12	1.05	1.25	1.11	1.35	1.15	1.17
	Coupler(P3)	dB	1.04	1.05	1.11	1.05	1.04	1.16	1.09	1.27	1.33
	Transmission (P2)	dB	1.05	1.05	1.12	1.04	1.03	1.15	1.09	1.27	1.25
	Isolated(P4)	dB	1.03	1.04	1.09	1.02	1.21	1.12	1.28	1.21	1.21

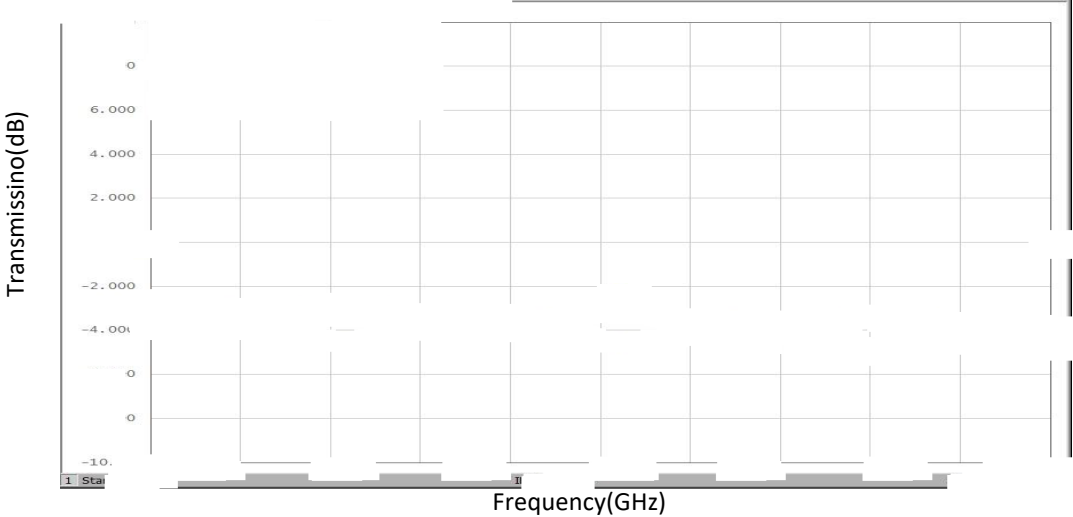
典型曲线 Typical Performance Data:

Coupling vs Frequency

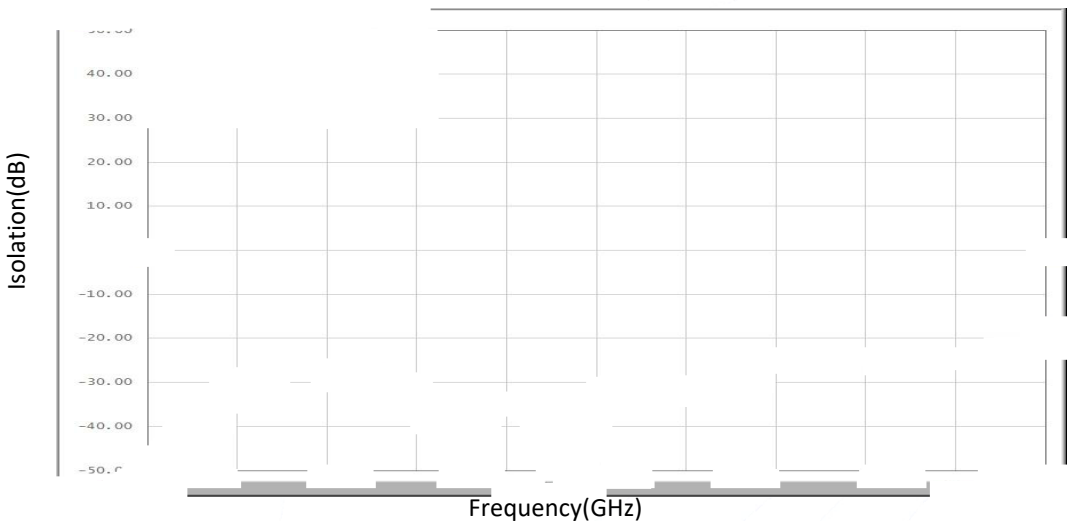


典型曲线 Typical Performance Data:

Transmission vs Frequency



Isolation vs Frequency

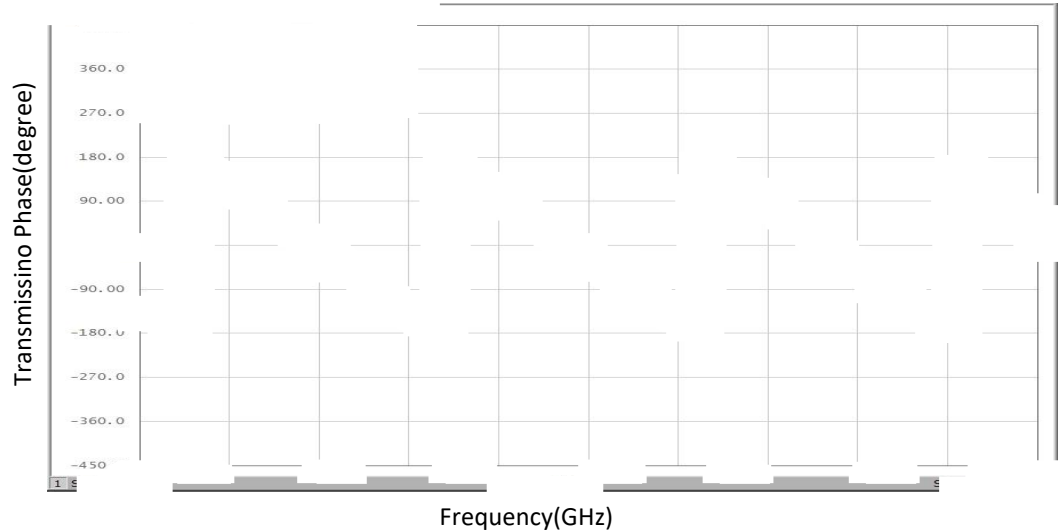


Coupling Phase vs Frequency

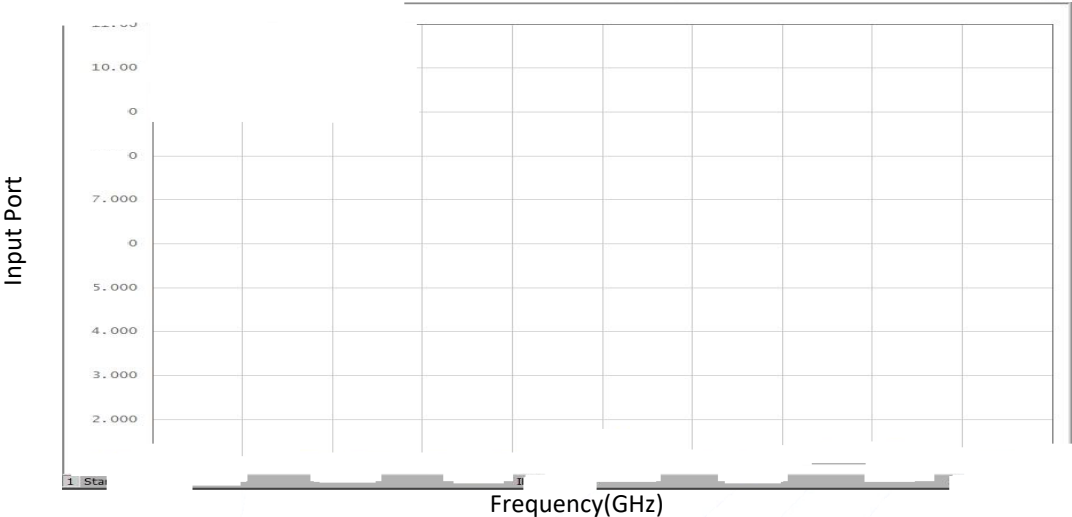


典型曲线 Typical Performance Data:

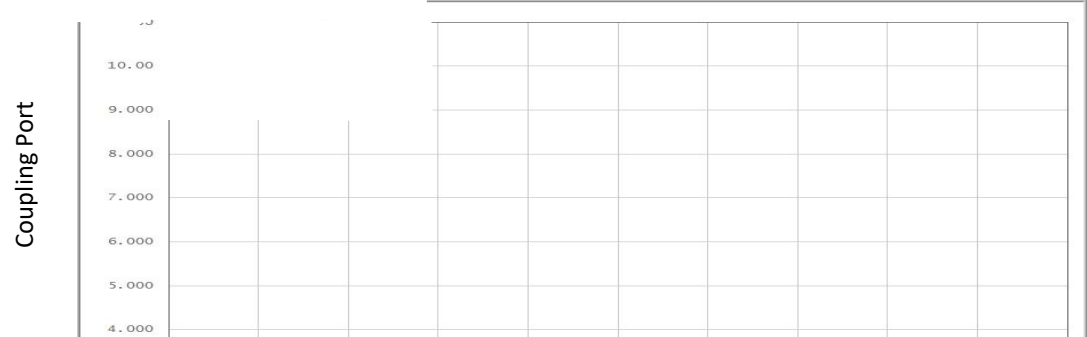
Transmission Phase vs Frequency



Input Port vs Frequency

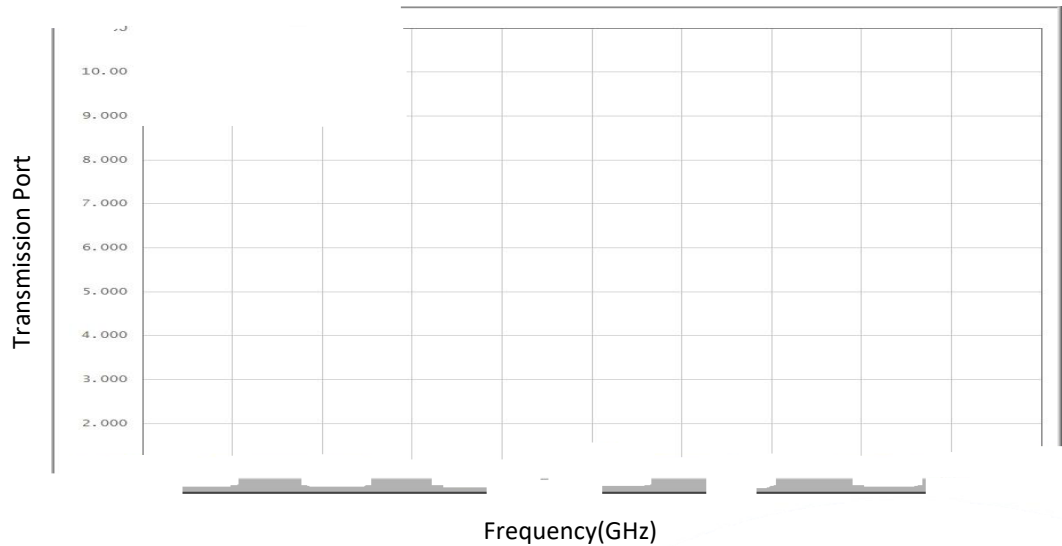


Coupling Port vs Frequency



典型曲线 Typical Performance Data:

Transmission Port vs Frequency



Isolation Port vs Frequency

