

Part No.: TDC-001100-40S-200-SMD

40dB Directional Coupler 0.1-1GHz

电气特性 Electrical:

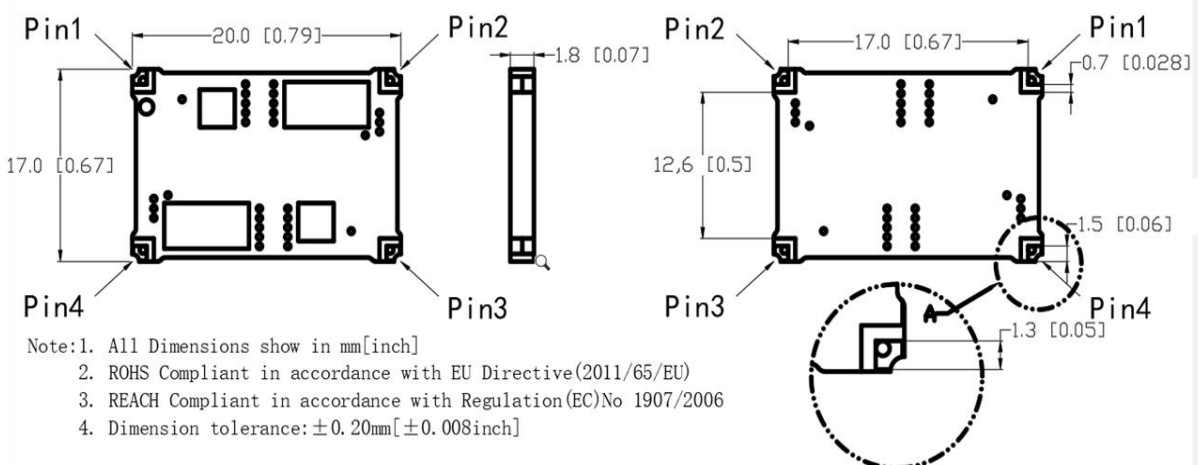
工作频率 Frequency Range: 100-1000MHz
 耦合度 Coupling : $40 \pm 1.0\text{dB}$
 插入损耗 Insertion Loss: 0.12dB Max
 驻波 VSWR: 1.10:1 Max
 方向性 Directivity: 25.0dB Min
 耐功率 Power Handling: 200 Watt
 阻抗 Impedance: 50 OHMS

机械特性 Mechanical:

温度范围 Temperature Range: $-55^{\circ}\text{C} - +105^{\circ}\text{C}$
 大小 Size: 20mm*17mm
 厚度 Thickness: 1.8mm
 相对湿度 Relative Humidity: 0 ~ 90%

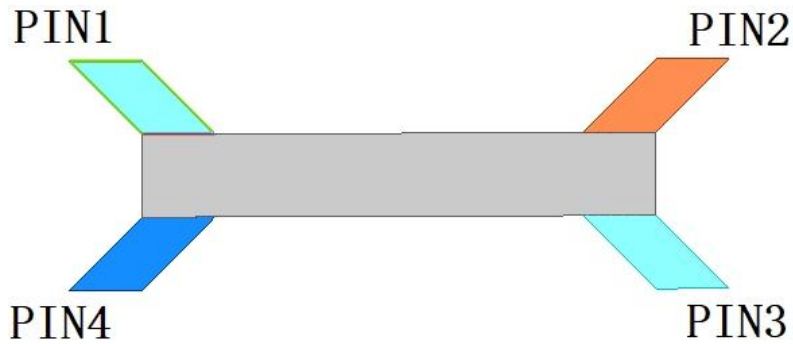
外形尺寸 Outline Drawing:

Unit: mm



端口配置表 Port Configuration Table:

Hybrid Coupler Pin Configuration



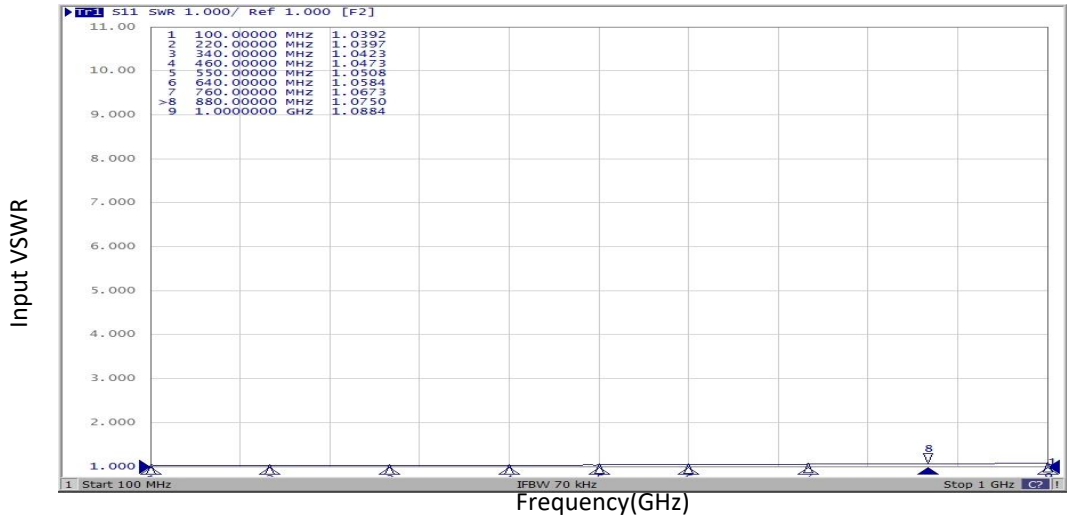
PIN1	PIN2	PIN3	PIN4
Input	Reflected Coupled	Transmission	Forward Coupled
Transmission	Forward Coupled	Input	Reflected Coupled

Typical Performance Data

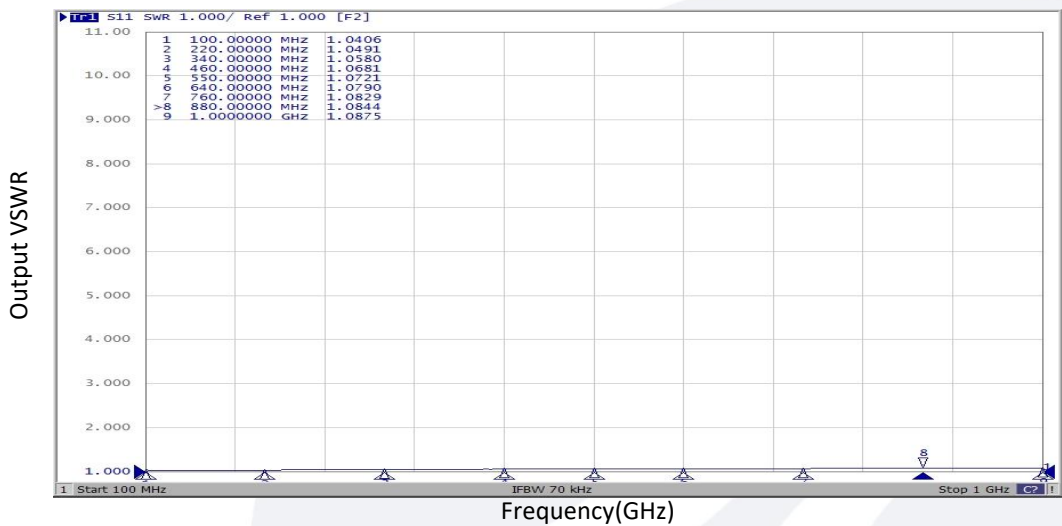
Frequency	MH z	100	220	340	460	550	640	760	880	1000	
Coupling	dB	-40.87	-39.47	-39.77	-40.15	-40.25	-40.23	-40.12	-39.87	-39.54	
Insertion Loss	dB	-0.009	-0.023	-0.033	-0.050	-0.051	-0.064	-0.081	-0.090	-0.101	
Directivity	dB	-44.55	-45.75	-40.35	-36.56	-34.48	-33.23	-30.30	-27.10	-26.32	
VSWR	Input	/	1.04	1.04	1.04	1.05	1.05	1.06	1.07	1.08	1.09
	Transmission	/	1.04	1.05	1.06	1.07	1.07	1.08	1.08	1.08	1.09

典型曲线 Typical Performance Data:

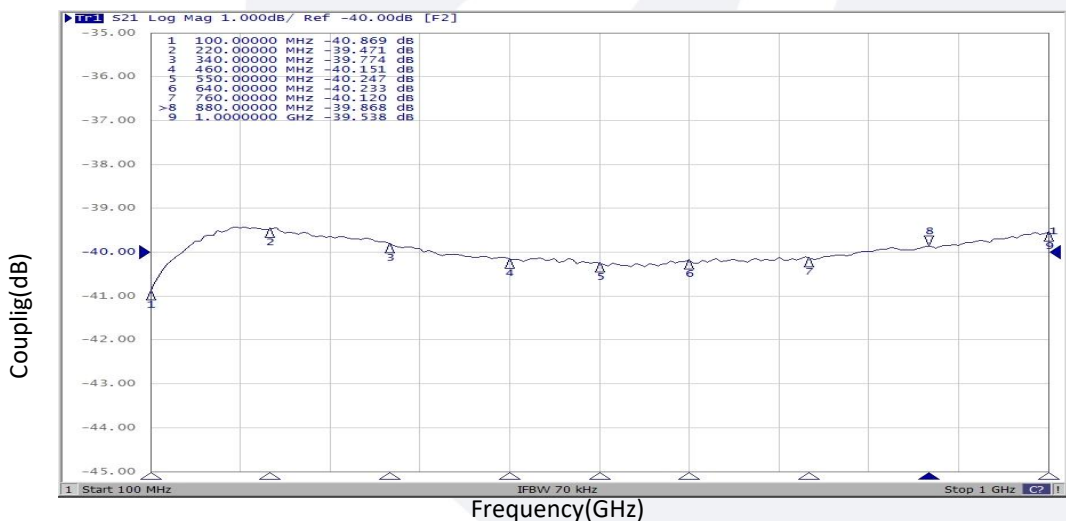
Input VSWR vs Frequency



Output VSWR vs Frequency

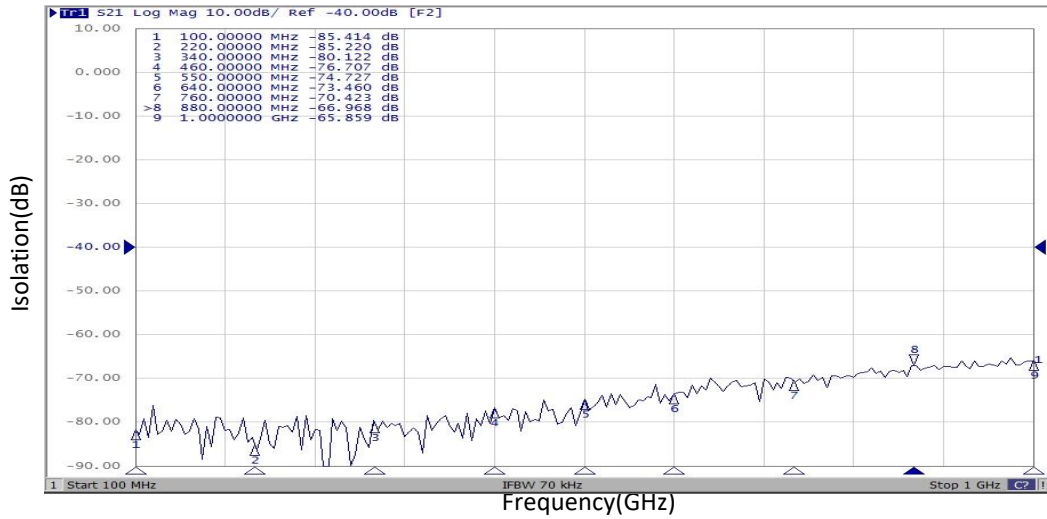


Coupling vs Frequency



典型曲线 Typical Performance Data:

Isolation vs Frequency



Insertion Loss vs Frequency

