

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

40dB Directional Coupler 0.1-1GHz

Electrical:

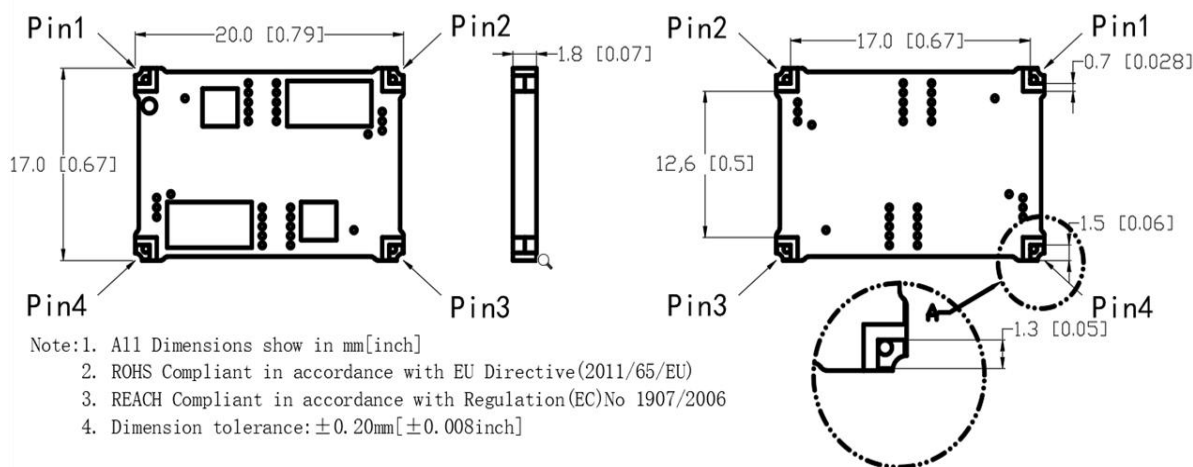
Frequency Range:	100-1000MHz
Coupling :	$40 \pm 1.0\text{dB}$
Insertion Loss:	0.12dB Max
VSWR:	1.10:1 Max
Directivity:	25.0dB Min
Power Handling:	200 Watt
Impedance:	50 OHMS

Mechanical:

Temperature Range:	-55° C - +105° C
Size:	20mm*17mm
Thickness:	1.8mm
Relative Humidity:	0 ~ 90%

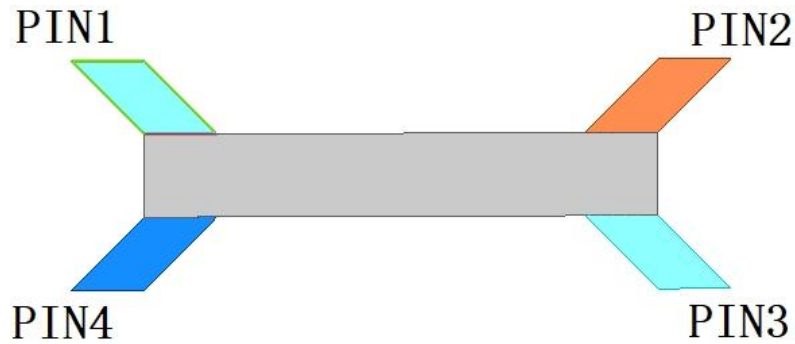
Outline Drawing:

Unit: mm



Port Configuration Table:

Hybrid Coupler Pin Configuration



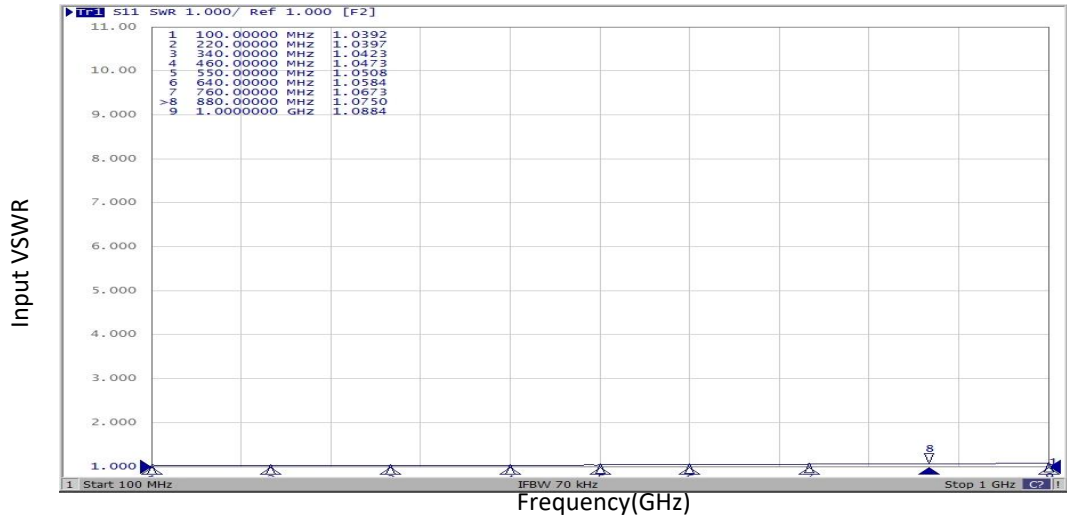
PIN1	PIN2	PIN3	PIN4
Input	Reflected Coupled	Transmission	Forward Coupled
Transmission	Forward Coupled	Input	Reflected Coupled

Typical Performance Data

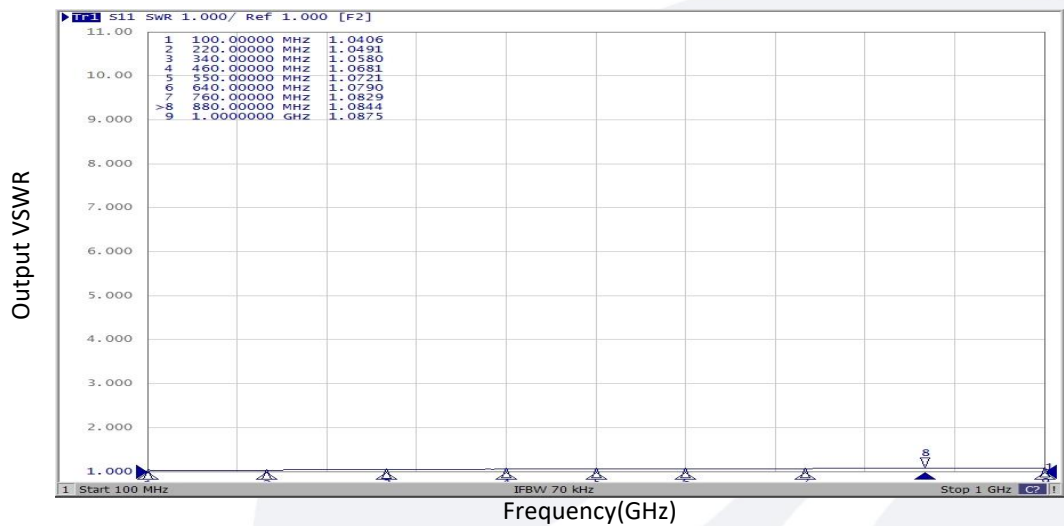
Frequency	MH z	100	220	340	460	550	640	760	880	1000
Coupling	dB	-40.87	-39.47	-39.77	-40.15	-40.25	-40.23	-40.12	-39.87	-39.54
Insertion Loss	dB	-0.009	-0.023	-0.033	-0.050	-0.051	-0.064	-0.081	-0.090	-0.101
Directivity	dB	-44.55	-45.75	-40.35	-36.56	-34.48	-33.23	-30.30	-27.10	-26.32
VSWR	Input	/	1.04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

Typical Performance Data:

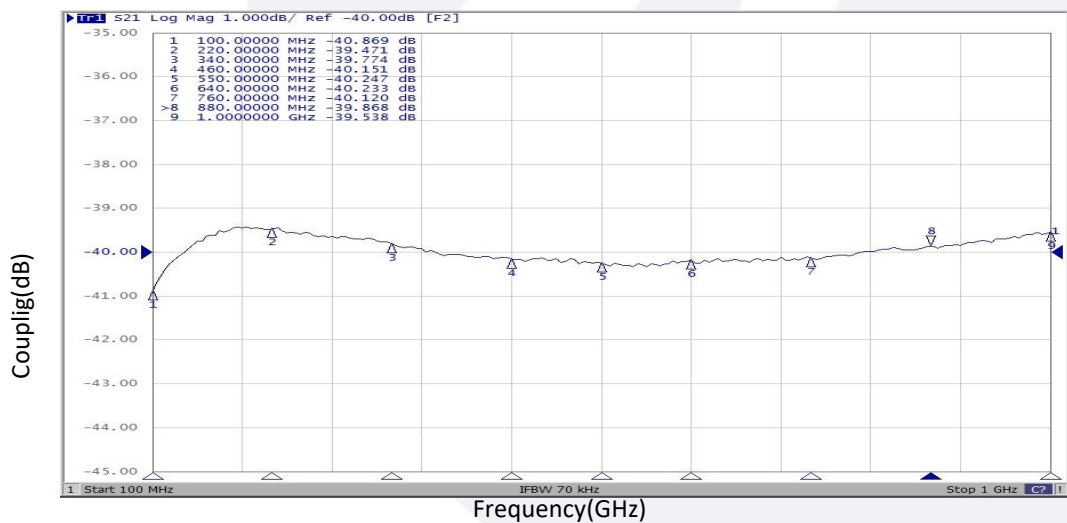
Input VSWR vs Frequency



Output VSWR vs Frequency

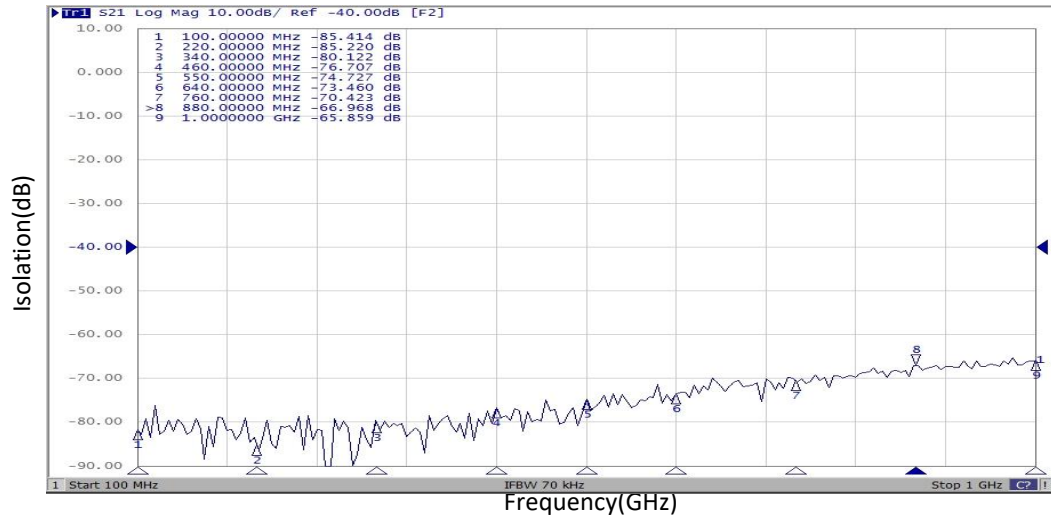


Coupling vs Frequency



Typical Performance Data:

Isolation vs Frequency



Insertion Loss vs Frequency

