

Part No.: TDC-003300-40S-150-SMD

40dB Directional Coupler 0.3-3GHz

Electrical:

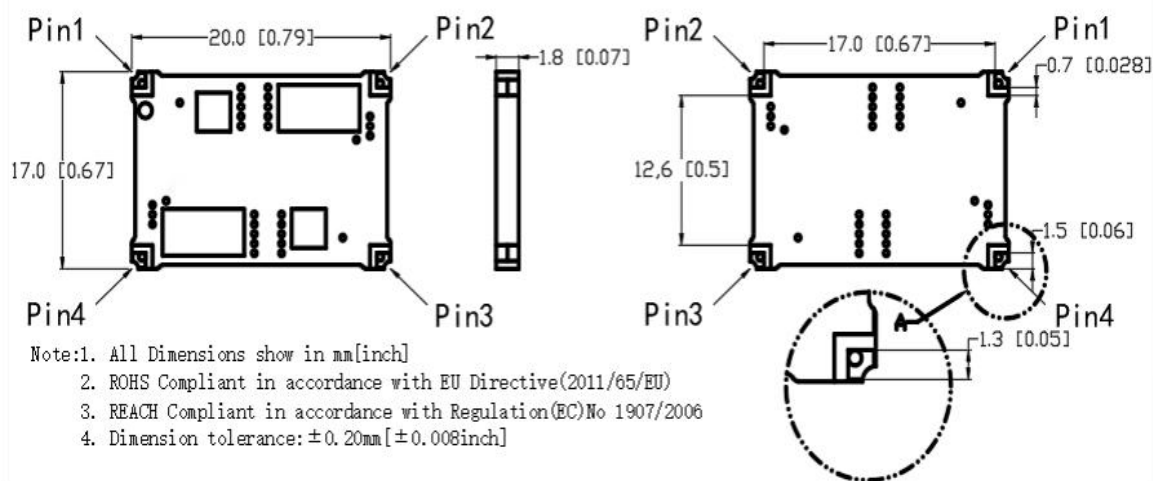
Frequency Range:	300-3000MHz
Coupling :	$40 \pm 1.2\text{dB}$
Insertion Loss:	0.26dB Max
VSWR:	1.20:1 Max
Directivity:	23.0dB Min
Power Handling:	150 Watt
Impedance:	50 OHMS

Mechanical:

Temperature Range:	$-55^{\circ}\text{C} - +105^{\circ}\text{C}$
Size:	20mm*17mm
Thickness:	1.8mm
Relative Humidity:	0 ~ 90%

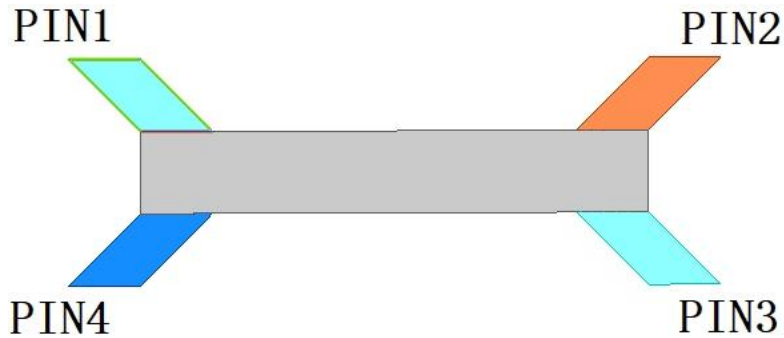
Outline Drawing:

Unit: mm



Port Configuration Table:

Hybrid Coupler Pin Configuration



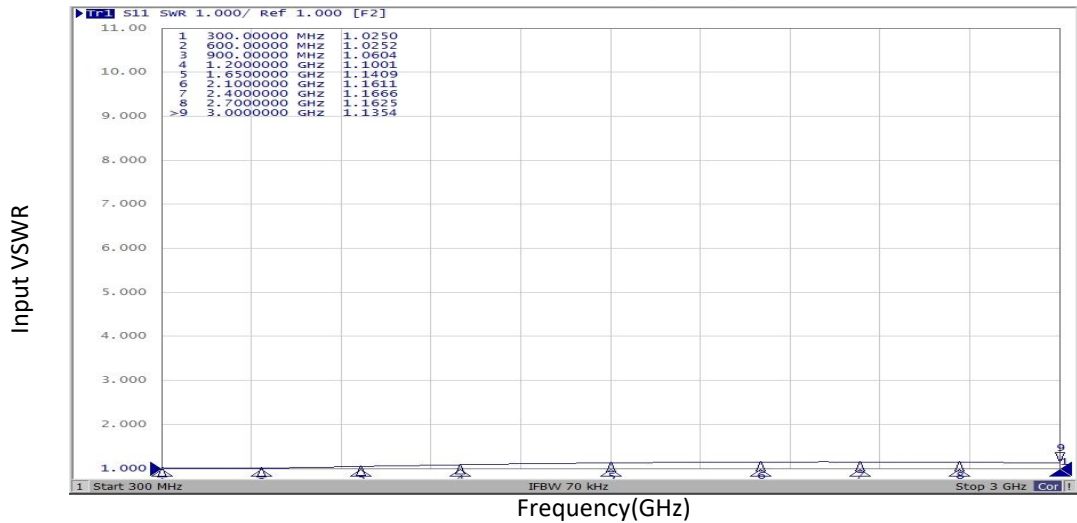
PIN1	PIN2	PIN3	PIN4
Input	Reflected Coupled	Transmission	Forward Coupled
Transmission	Forward Coupled	Input	Reflected Coupled

Typical Performance Data

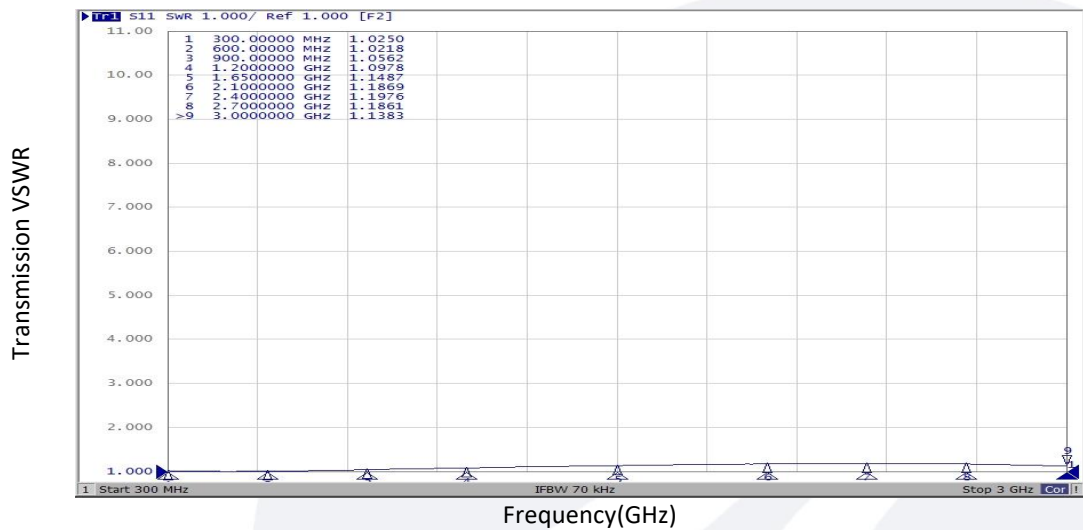
Frequency	MHz	300	600	900	1200	1650	2100	2400	2700	3000
Coupling	dB	-41.09	-38.95	-39.35	-40.09	-40.40	-40.43	-39.78	-39.81	-39.49
Insertion Loss	dB	-0.02	-0.03	-0.05	-0.09	-0.10	-0.28	-0.21	-0.24	-0.26
Directivity	dB	-30.29	-29.44	-28.74	-28.03	-27.00	-24.70	-23.18	-23.02	-24.98
VSWR	Input	/	1.03	1.03	1.06	1.10	1.14	1.16	1.17	1.16
	Transmission	/	1.03	1.02	1.06	1.10	1.15	1.19	1.20	1.19

Typical Performance Data:

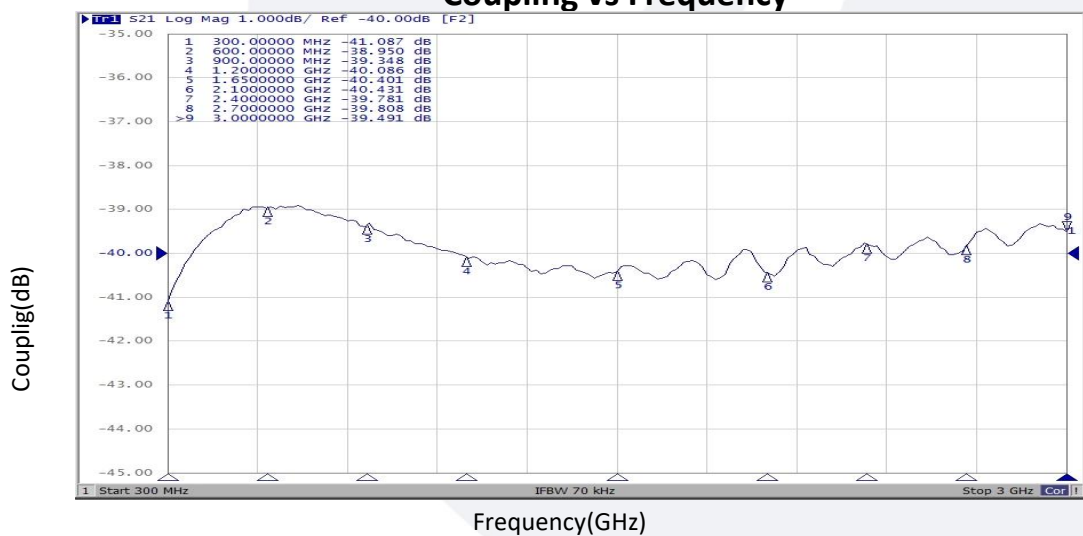
Input VSWR vs Frequency



Transmission VSWR vs Frequency

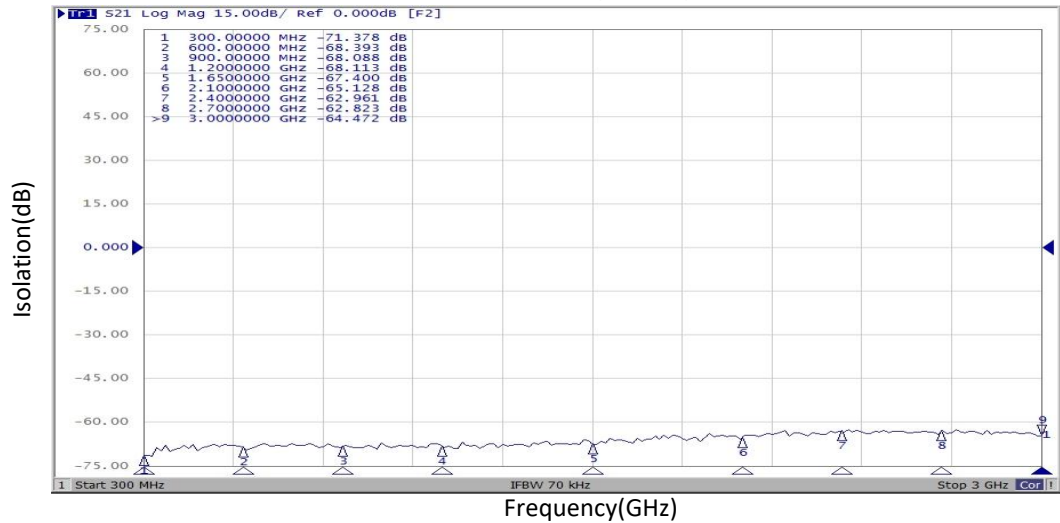


Coupling vs Frequency



Typical Performance Data:

Isolation vs Frequency



Insertion Loss vs Frequency

