

Part No.: TDC-006052-40N-200-SMD

40.5dB Directional Coupler 0.03-0.52GHz

Electrical:

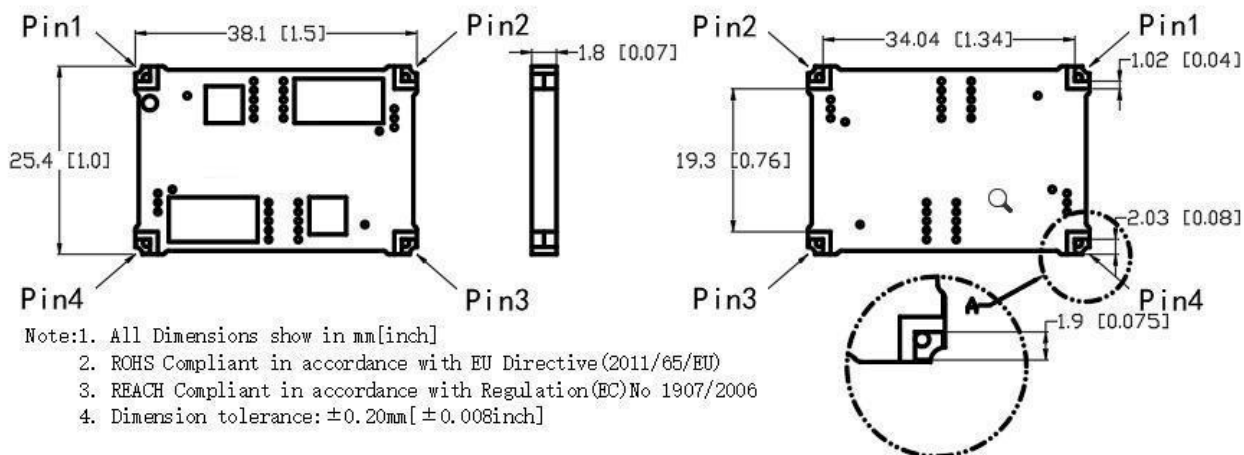
Frequency Range:	60-520MHz
Coupling :	$40.5 \pm 1.0\text{dB}$
Insertion Loss:	0.15dB Max
VSWR:	1.10:1 Max
Directivity:	25.0dB Min
Power Handling:	200 Watt
Impedance:	50 OHMS

Mechanical:

Temperature Range:	$-55^{\circ}\text{C} - +105^{\circ}\text{C}$
Size:	38.1mm*25.4mm
Thickness:	1.8mm
Relative Humidity:	0 ~ 90%

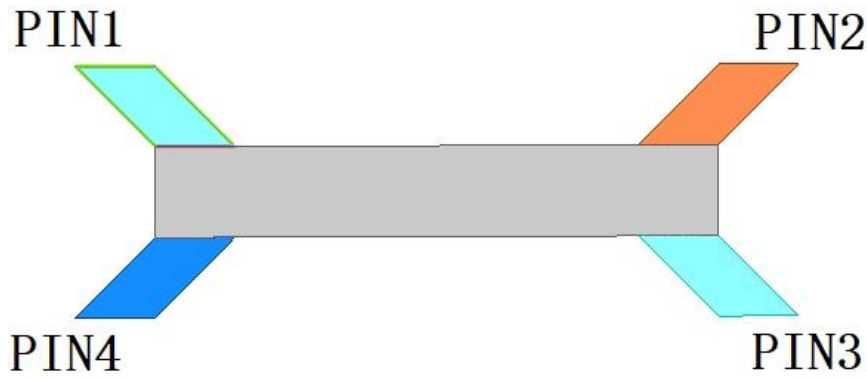
Outline Drawing:

Unit: mm



Port Configuration Table:

Hybrid Coupler Pin Configuration



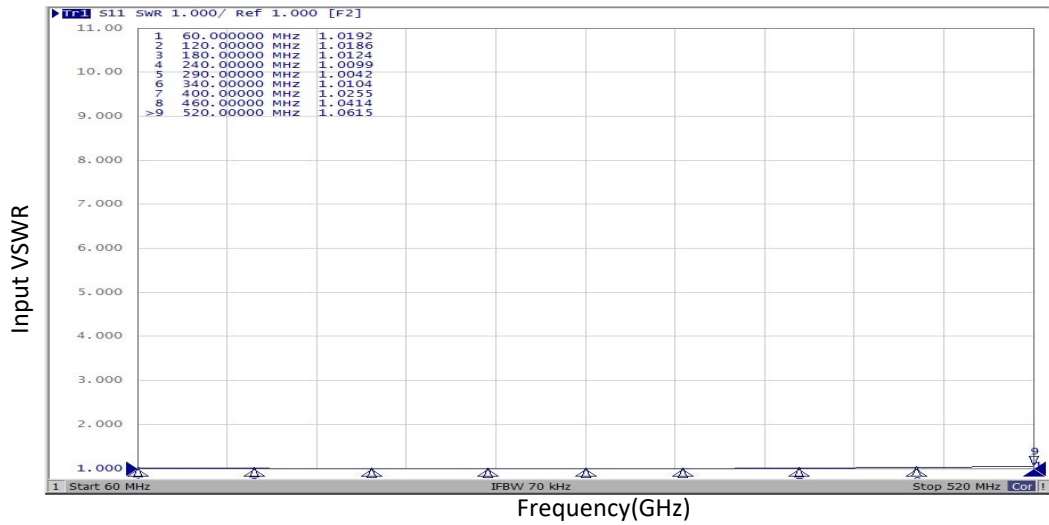
PIN1	PIN2	PIN3	PIN4
Input	Reflected Coupled	Transmission	Forward Coupled
Transmission	Forward Coupled	Input	Reflected Coupled

Typical Performance Data

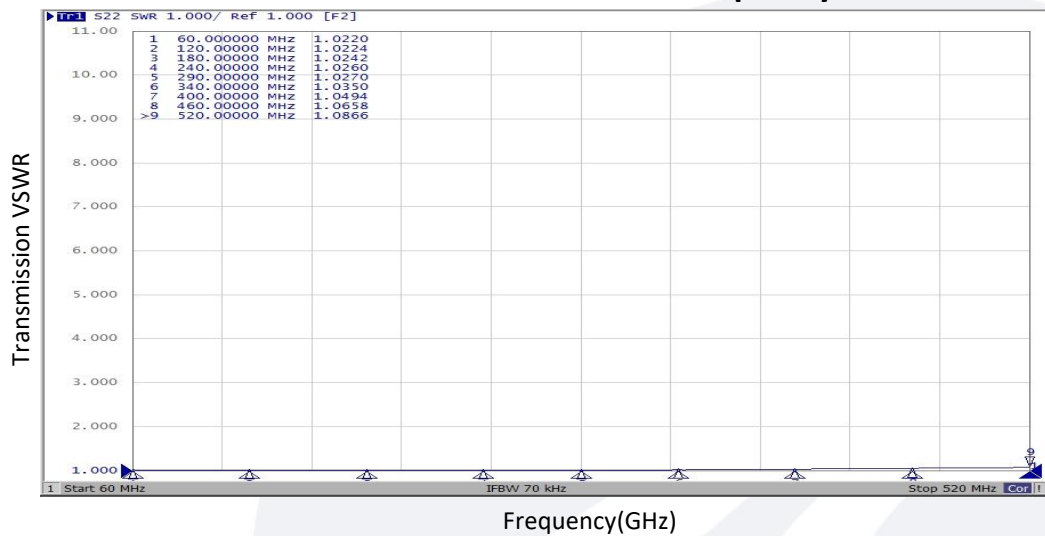
Frequency	MHz	60	120	180	240	290	340	400	460	520
Coupling	dB	-41.25	-39.69	-39.84	-40.12	-40.21	-40.36	-40.39	-40.34	-40.38
Insertion Loss	dB	-0.013	-0.034	-0.045	-0.054	-0.069	-0.075	-0.093	-0.111	-0.127
Directivity	dB	-26.66	-26.36	-26.56	-26.46	-27.07	-27.26	-26.32	-26.43	-26.37
VSWR	Input	/	1.02	1.02	1.01	1.01	1.00	1.01	1.03	1.04
	Transmission	/	1.02	1.02	1.02	1.03	1.03	1.04	1.05	1.07

Typical Performance Data:

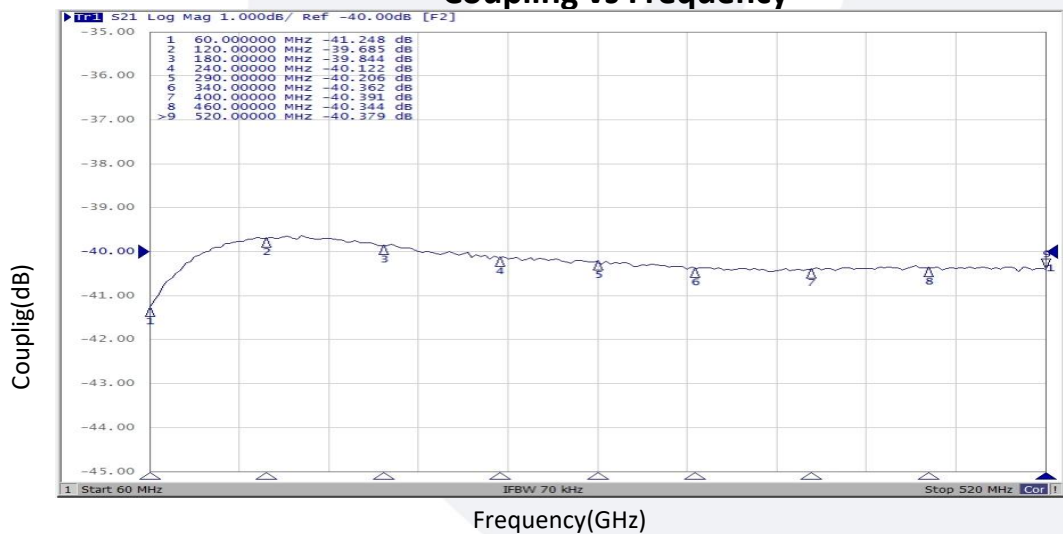
Input VSWR vs Frequency



Transmission VSWR vs Frequency

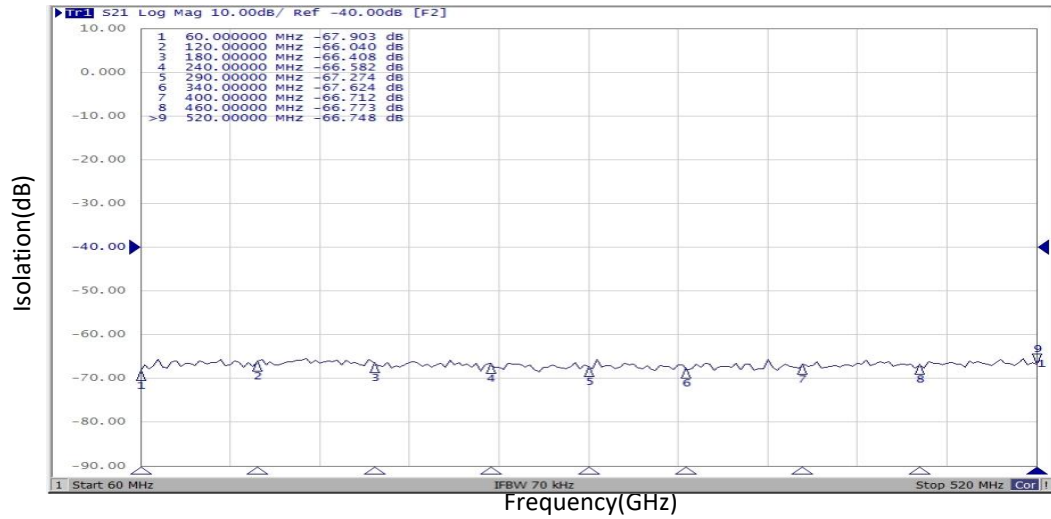


Coupling vs Frequency



Typical Performance Data:

Isolation vs Frequency



Insertion Loss vs Frequency

