

Part No.: TDC-003270-41N-300-SMD

41dB Directional Coupler 0.3-2.7GHz

电气特性 Electrical:

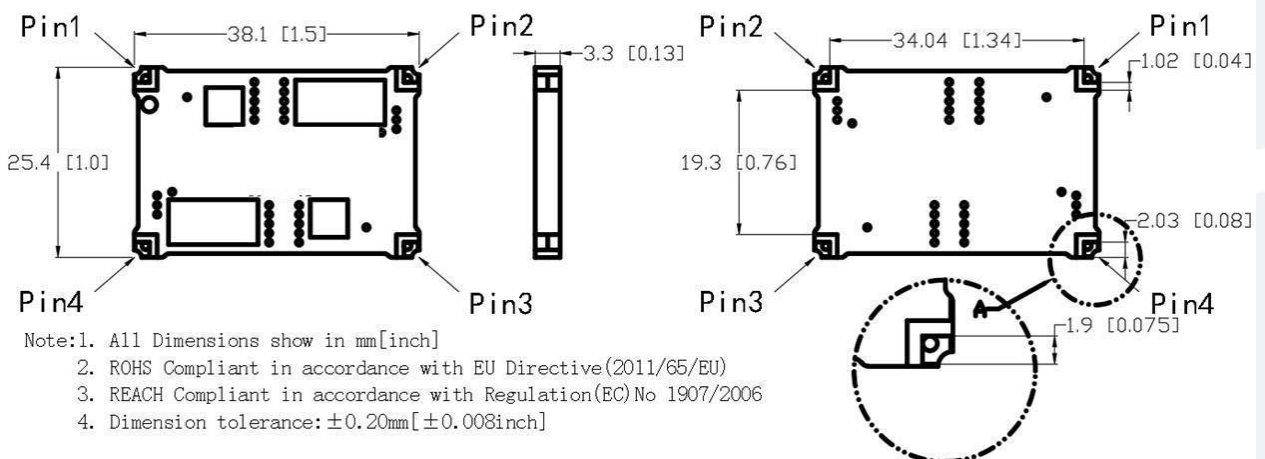
工作频率 Frequency Range: 300-2700MHz
 耦合度 Coupling : $41 \pm 1.5\text{dB}$
 插入损耗 Insertion Loss: 0.3dB Max
 驻波 VSWR: 1.20:1 Max
 方向性 Directivity: 18.0dB Min
 耐功率 Power Handling: 300 Watt
 阻抗 Impedance: 50 OHMS

机械特性 Mechanical:

温度范围 Temperature Range: $-55^{\circ}\text{C} - +105^{\circ}\text{C}$
 大小 Size: 38.1mm*25.4mm
 厚度 Thickness: 3.3mm
 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



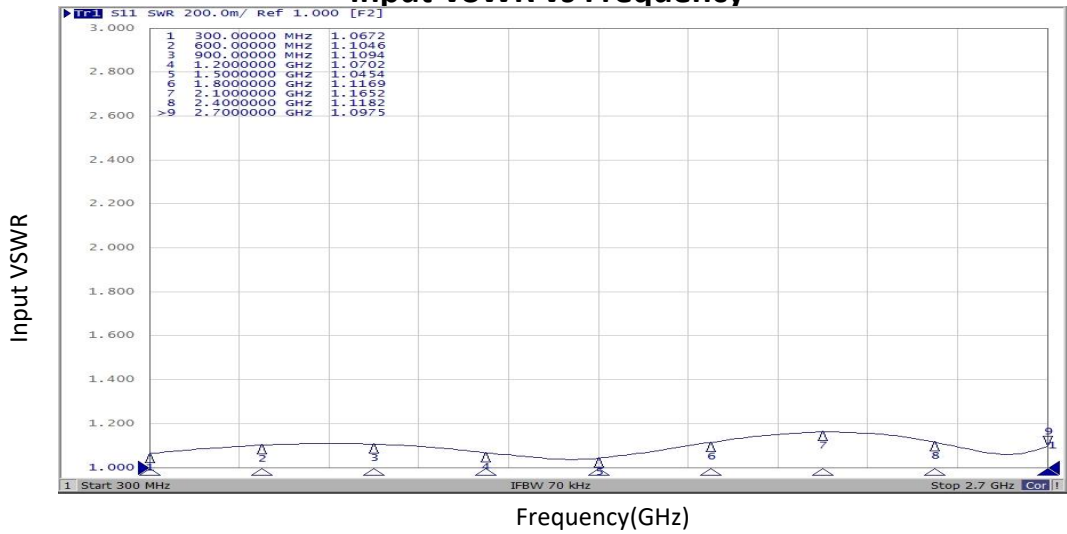
PIN1	PIN2	PIN3	PIN4
Input	Reflected Coupled	Transmission	Forward Coupled
Transmission	Forward Coupled	Input	Reflected Coupled

Typical Performance Data

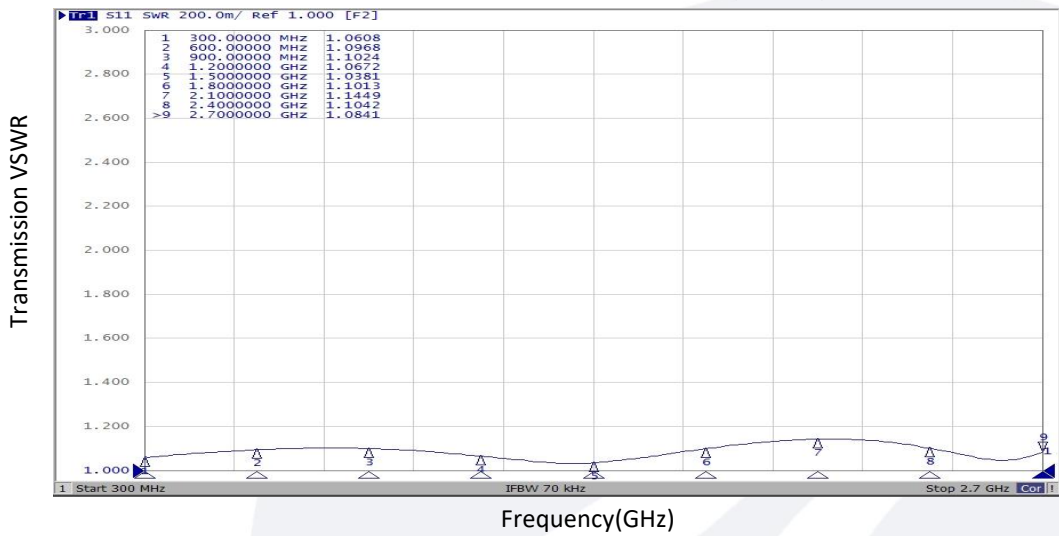
Frequency	MHz	300	600	900	1200	1500	1800	2100	2400	2700	
Coupling	dB	-41.54	-40.33	-41.13	-41.46	-41.23	-40.37	-40.25	-39.72	-40.17	
Insertion Loss	dB	-0.048	-0.055	-0.051	-0.065	-0.12	-0.099	-0.19	-0.23	-0.29	
Directivity	dB	-37.53	-29.61	-25.99	-23.38	-20.47	-20.81	-20.47	-21.20	-22.99	
VSWR	Input	/	1.07	1.10	1.11	1.07	1.05	1.12	1.17	1.12	1.10
	Transmission	/	1.06	1.10	1.10	1.07	1.04	1.10	1.14	1.10	1.08

典型曲线 Typical Performance Data:

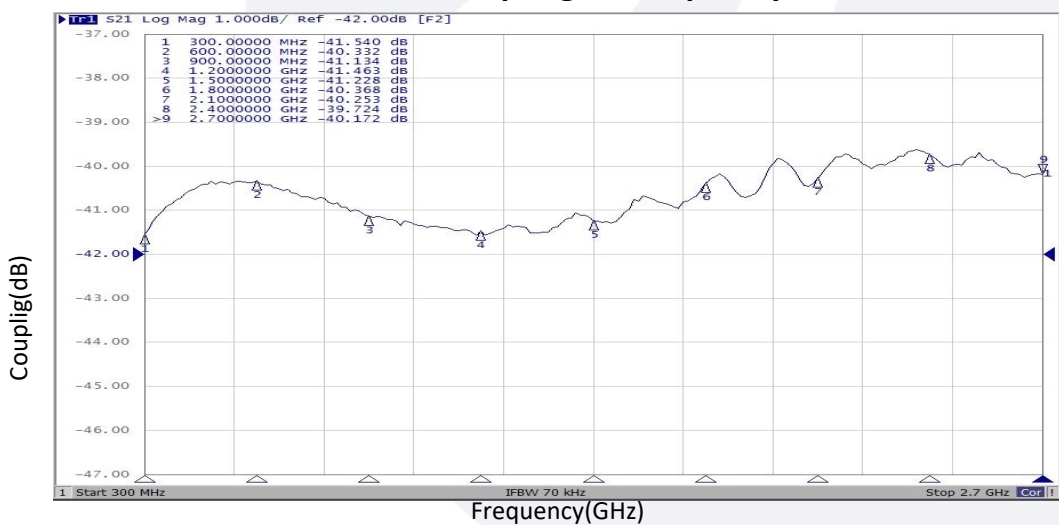
Input VSWR vs Frequency



Transmission VSWR vs Frequency

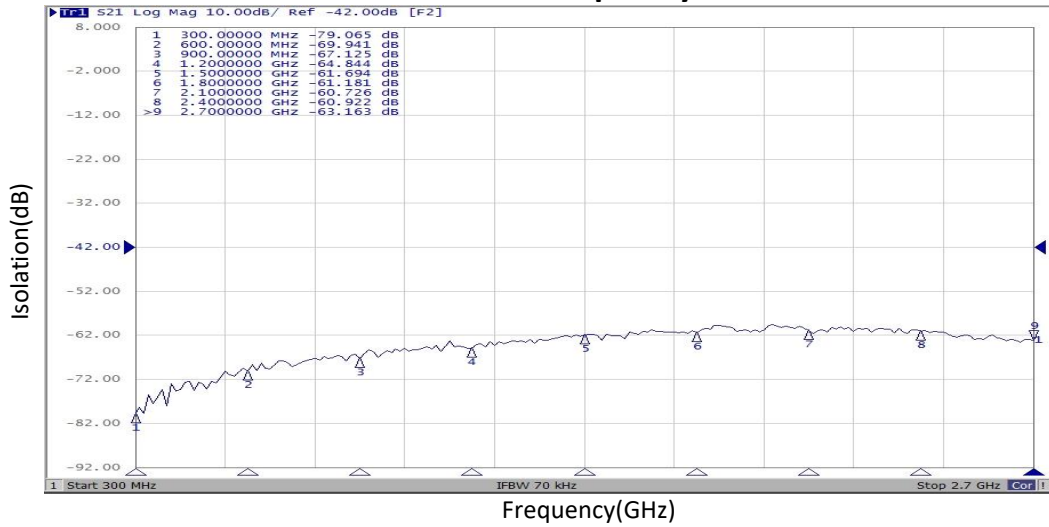


Coupling vs Frequency



典型曲线 Typical Performance Data:

Isolation vs Frequency



Insertion Loss vs Frequency

