

Part No.: TDC-001100-41N-300-SMD

41.5dB Directional Coupler 0.1-1GHz

电气特性 Electrical:

工作频率 Frequency Range: 100-1000MHz

耦合度 Coupling : $41.5 \pm 1.0\text{dB}$

插入损耗 Insertion Loss: 0.20dB Max

驻波 VSWR: 1.15:1 Max

方向性 Directivity: 25.0dB Min

耐功率 Power Handling: 300 Watt

阻抗 Impedance: 50 OHMS

机械特性 Mechanical:

温度范围 Temperature Range: $-55^{\circ}\text{C} - +105^{\circ}\text{C}$

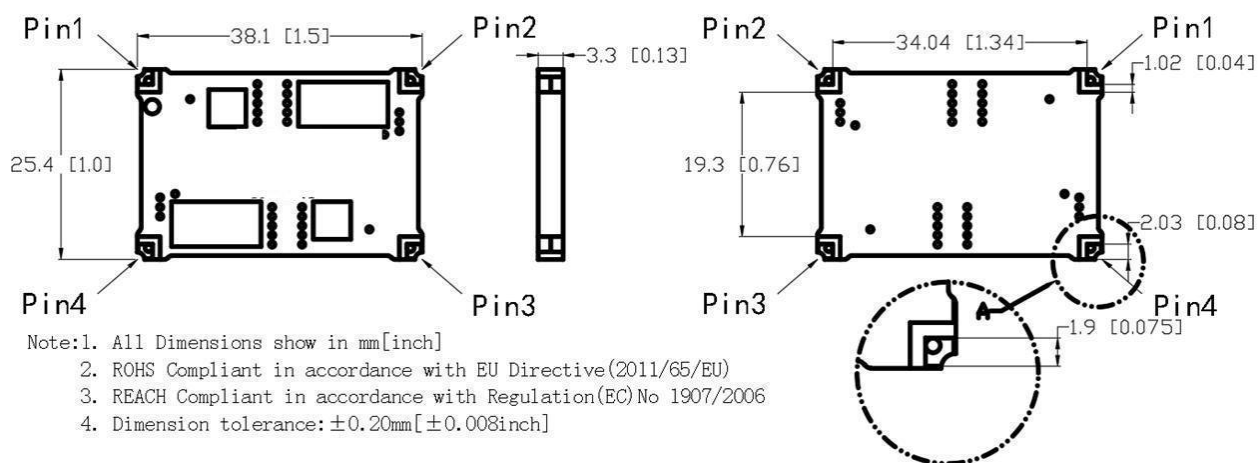
大小 Size: 38.1mm*25.4mm

厚度 Thickness: 3.3mm

相对湿度 Relative Humidity: 0 ~ 90%

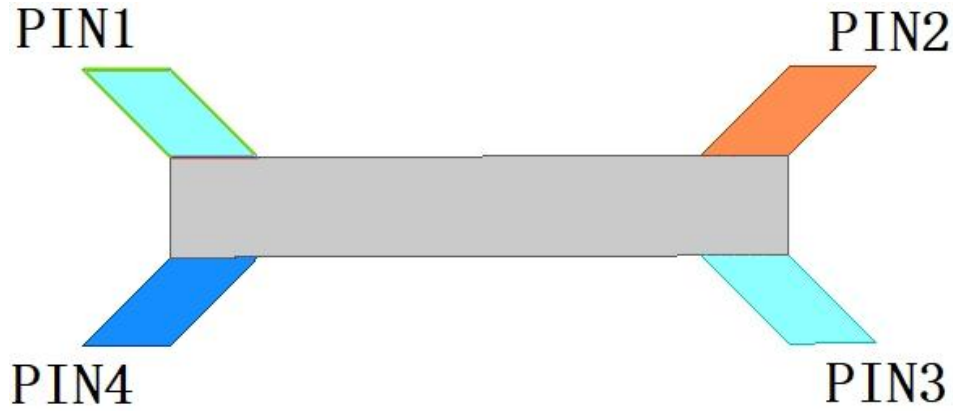
外形尺寸 Outline Drawing:

Unit: mm



端口配置表 Port Configuration Table:

Hybrid Coupler Pin Configuration



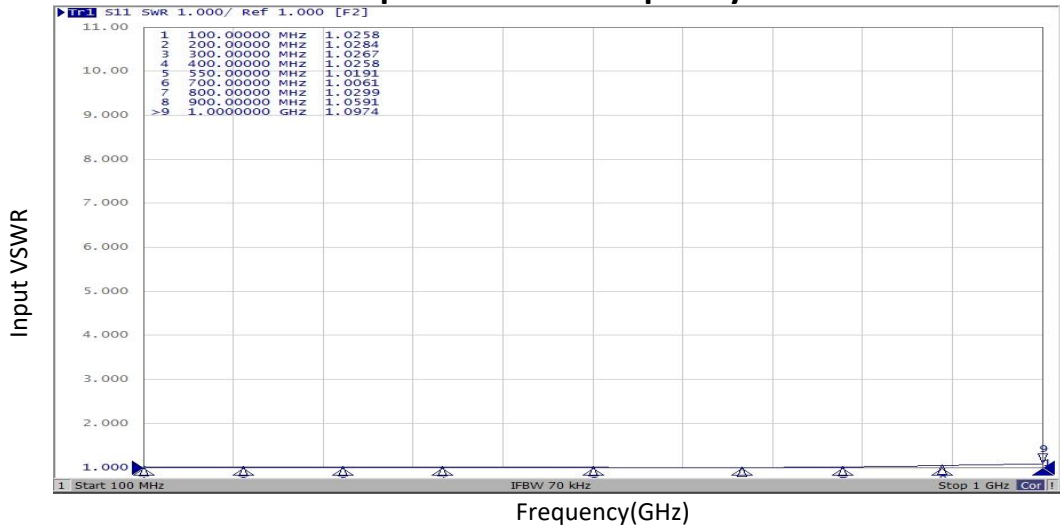
PIN1	PIN2	PIN3	PIN4
Input	Reflected Coupled	Transmission	Forward Coupled
Transmission	Forward Coupled	Input	Reflected Coupled

Typical Performance Data

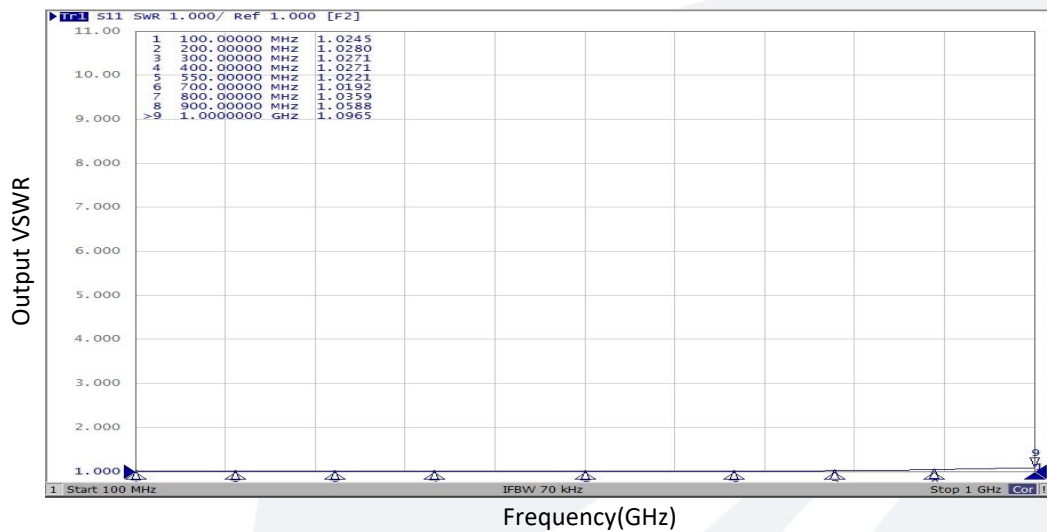
Frequency	MHz	100	200	300	400	550	700	800	900	1000	
Coupling	dB	-42.30	-40.65	-40.89	-41.43	-41.91	-41.89	-41.65	-41.34	-41.04	
Insertion Loss	dB	-0.013	-0.012	-0.039	-0.037	-0.047	-0.077	-0.12	-0.14	-0.17	
Directivity	dB	-33.19	-33.78	-31.25	-32.57	-32.12	-33.24	-31.90	-26.76	-26.26	
VSWR	Input	/	1.03	1.03	1.03	1.03	1.02	1.01	1.03	1.06	1.10
	Transmission	/	1.02	1.03	1.03	1.03	1.02	1.02	1.04	1.06	1.10

典型曲线 Typical Performance Data:

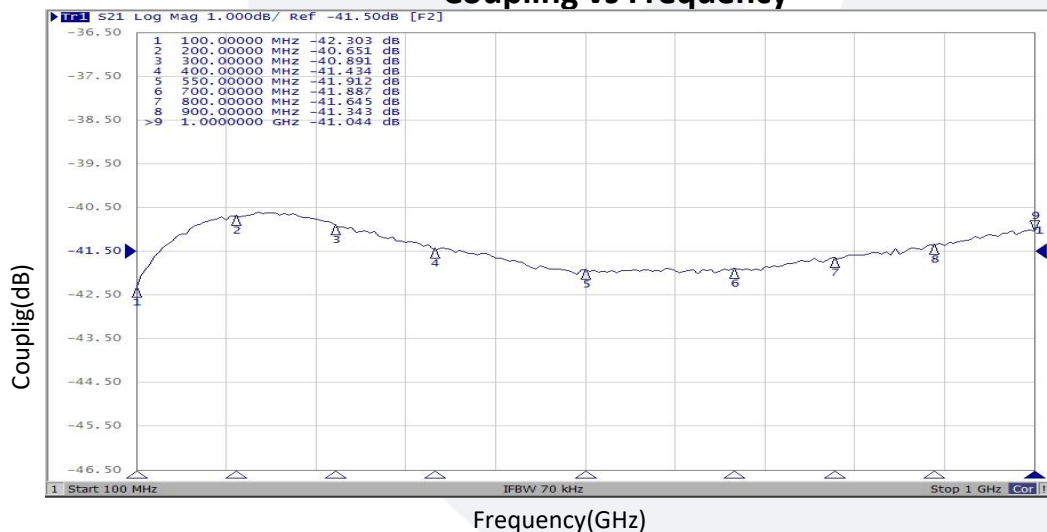
Input VSWR vs Frequency



Output VSWR vs Frequency

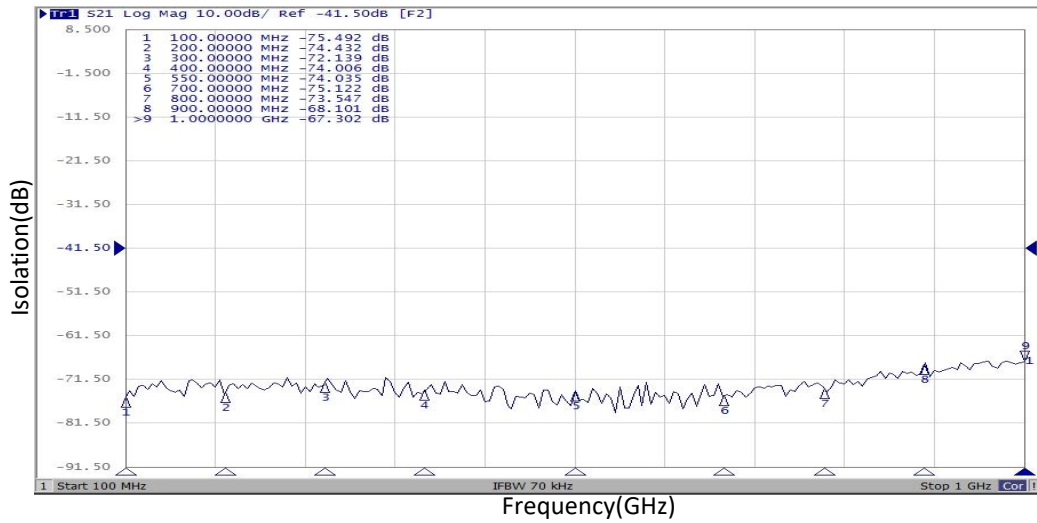


Coupling vs Frequency



典型曲线 Typical Performance Data:

Isolation vs Frequency



Insertion Loss vs Frequency

