

**Part No.: TDC-003030-40N-200-SMD**

**40dB Directional Coupler 0.03-0.3GHz**

**电气特性 Electrical:**

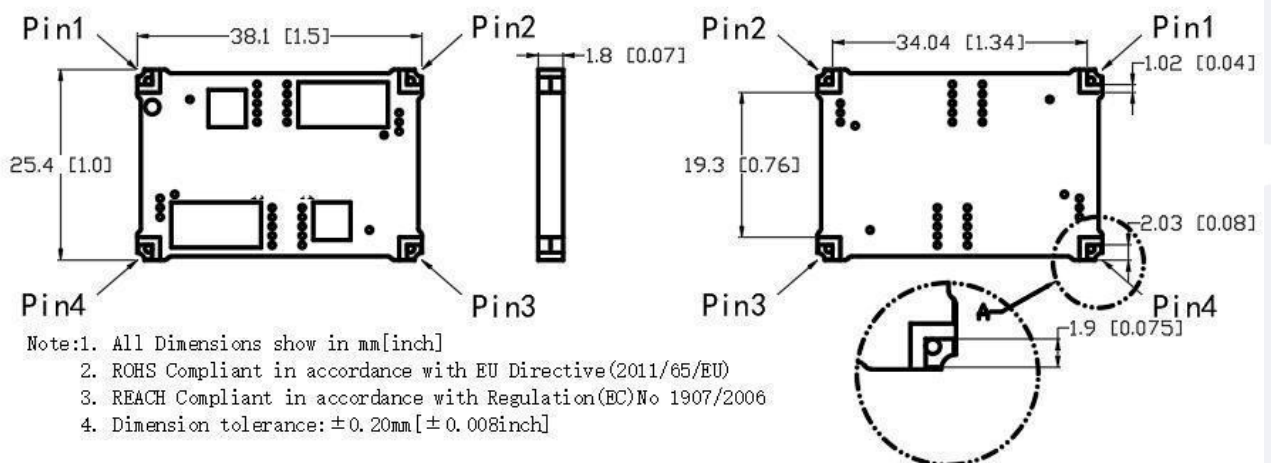
工作频率 Frequency Range: 30-300MHz  
 耦合度 Coupling :  $40 \pm 1.0\text{dB}$   
 插入损耗 Insertion Loss: 0.20dB Max  
 驻波 VSWR: 1.10:1 Max  
 方向性 Directivity: 30.0dB Min  
 耐功率 Power Handling: 200 Watt  
 阻抗 Impedance: 50 OHMS

**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: 1.8mm  
 相对湿度 Relative Humidity: 0 ~ 90%

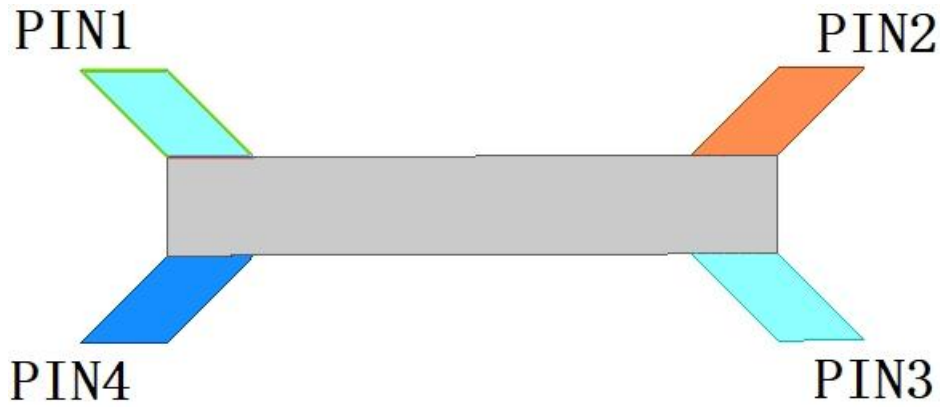
**外形尺寸 Outline Drawing:**

Unit: mm



**端口配置表 Port Configuration Table:**

Hybrid Coupler Pin Configuration



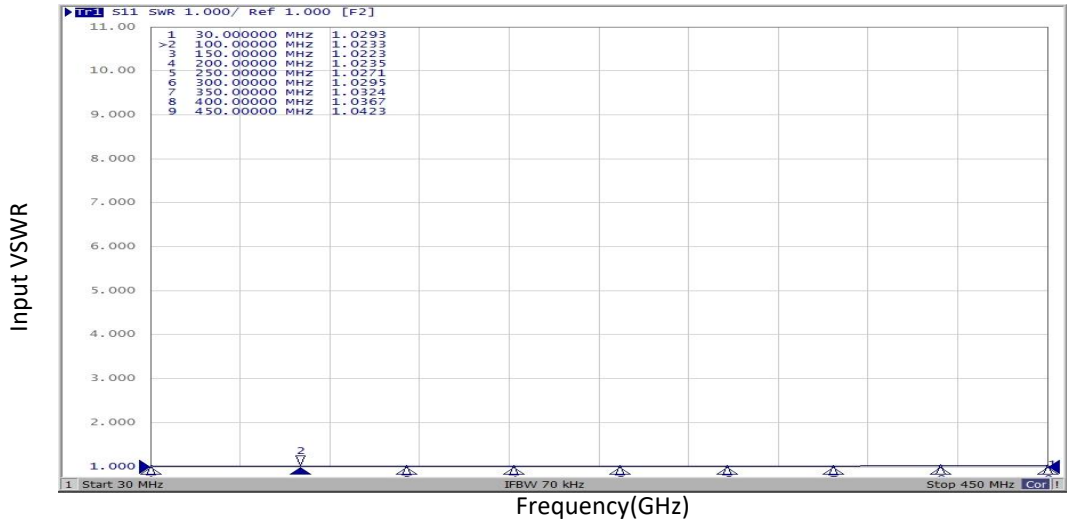
PIN1	PIN2	PIN3	PIN4
Input	Reflected Coupled	Transmission	Forward Coupled
Transmission	Forward Coupled	Input	Reflected Coupled

Typical Performance Data

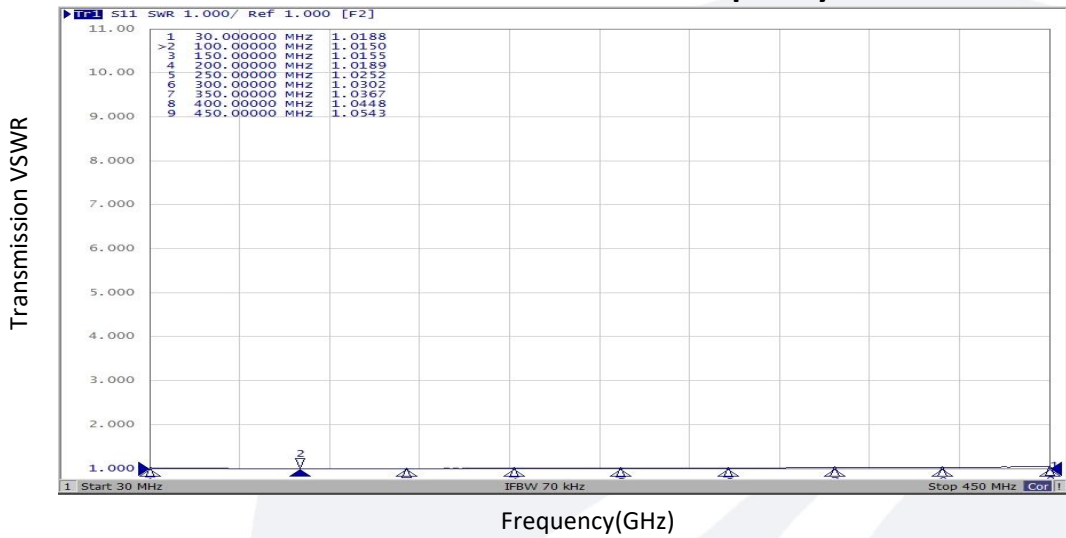
Frequency	MHz	30	100	150	200	250	300	350	400	450
Coupling	dB	-40.87	-39.48	-39.76	-39.92	-40.07	-40.15	-40.27	-40.35	-40.45
Insertion Loss	dB	-0.024	-0.051	-0.081	-0.106	-0.146	-0.187	-0.214	-0.271	-0.319
Directivity	dB	-35.74	-38.62	-43.59	-38.56	-35.96	-33.49	-30.66	-30.28	-27.61
VSWR	Input	/	1.03	1.02	1.02	1.02	1.03	1.03	1.03	1.04
	Transmission	/	1.02	1.02	1.02	1.02	1.03	1.03	1.04	1.04

典型曲线 Typical Performance Data:

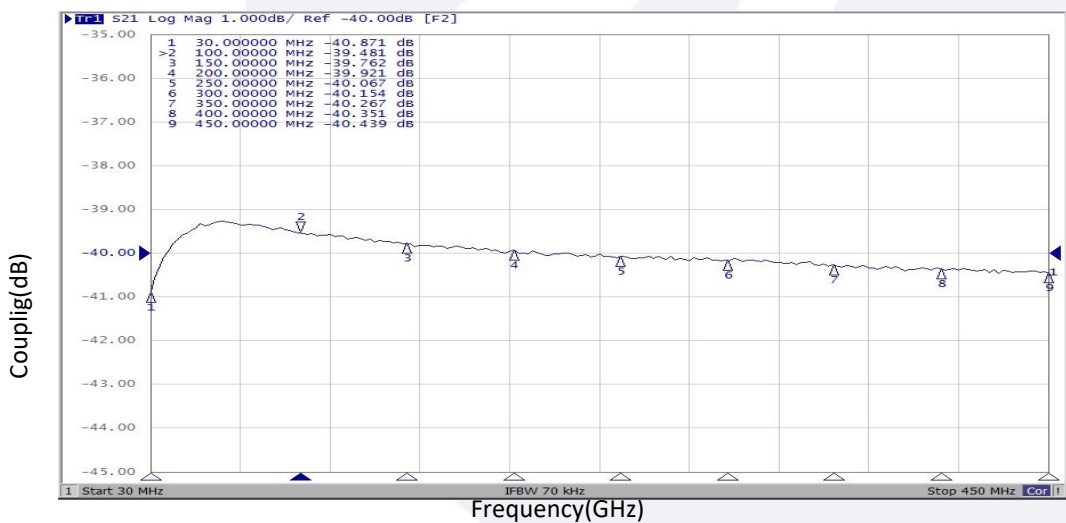
Input VSWR vs Frequency



Transmission VSWR vs Frequency

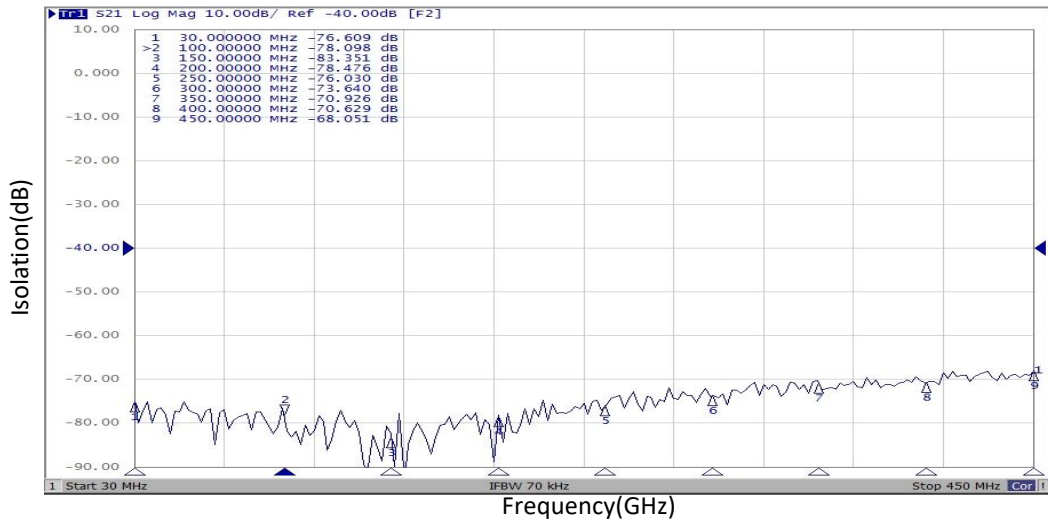


Coupling vs Frequency



典型曲线 Typical Performance Data:

Isolation vs Frequency



Insertion Loss vs Frequency

