

**Part No.: TDC-009045-30N-200-SMD**

## 30.5dB Directional Coupler 0.09-0.45GHz

### 电气特性 Electrical:

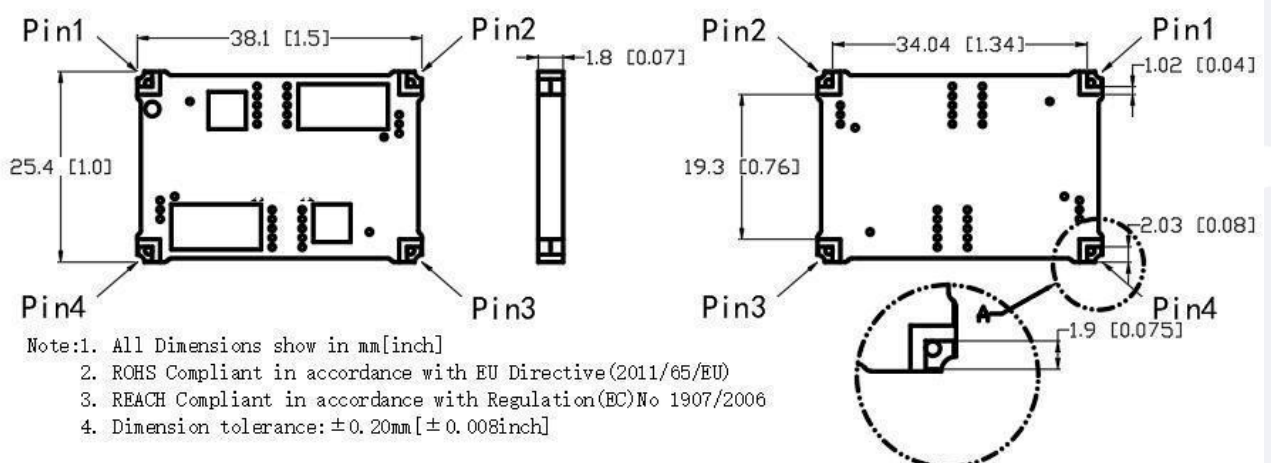
工作频率 Frequency Range:	90-450MHz
耦合度 Coupling :	30.5 ± 1.0dB
插入损耗 Insertion Loss:	0.35dB Max
驻波 VSWR:	1.10:1 Max
方向性 Directivity:	30.0dB Min
耐功率 Power Handling:	200 Watt
阻抗 Impedance:	50 OHMS

### 机械特性 Mechanical:

温度范围 Temperature Range:	-55° C - +105° C
大小 Size:	38.1mm*25.4mm
厚度 Thickness:	1.8mm
相对湿度 Relative Humidity:	0 ~ 90%

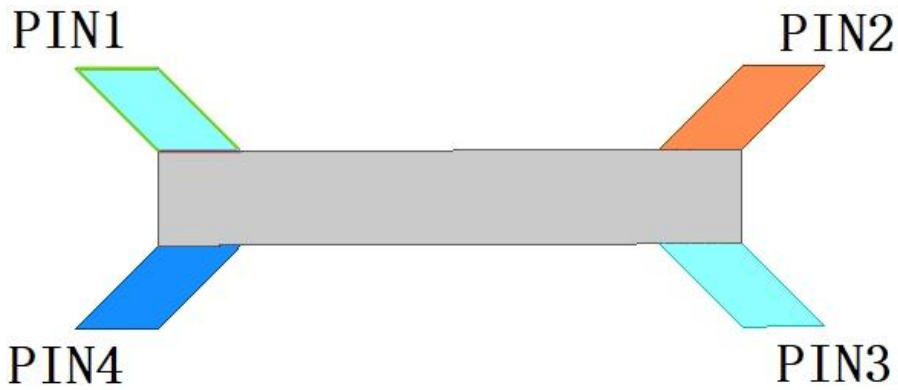
### 外形尺寸 Outline Drawing:

Unit: mm



**端口配置表 Port Configuration Table:**

Hybrid Coupler Pin Configuration



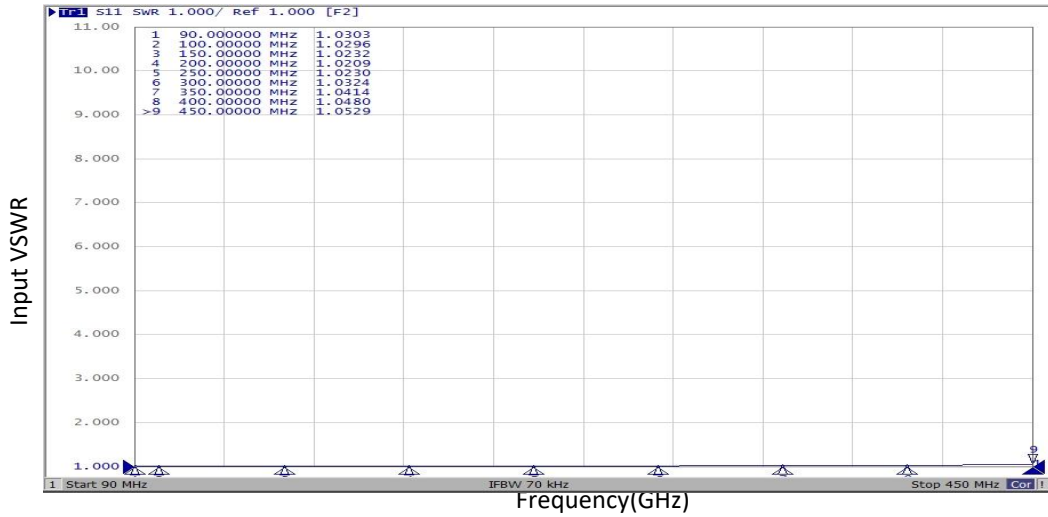
PIN1	PIN2	PIN3	PIN4
Input	Reflected Coupled	Transmission	Forward Coupled
Transmission	Forward Coupled	Input	Reflected Coupled

Typical Performance Data

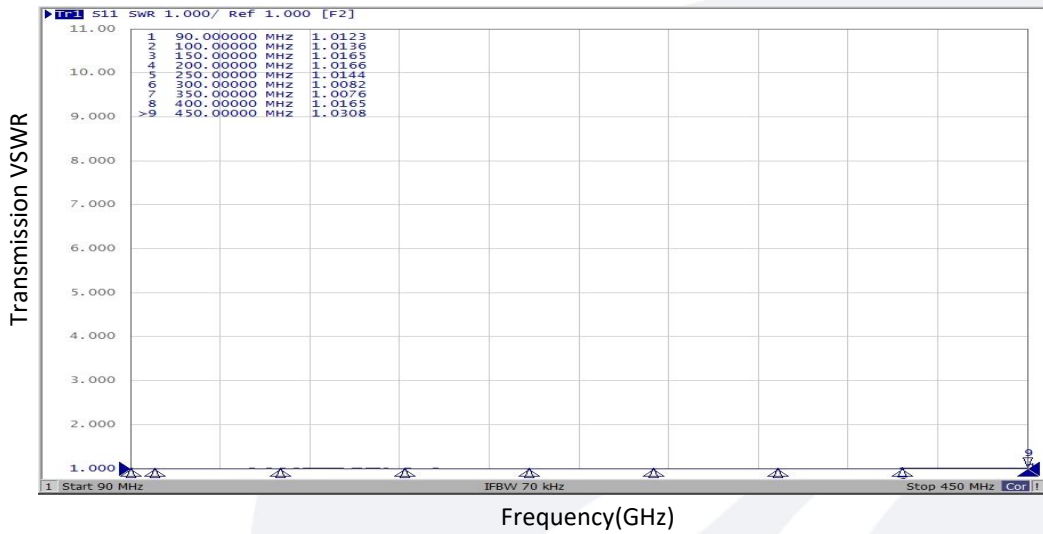
Frequency	MHz	90	100	150	200	250	300	350	400	450
Coupling	dB	-31.47	-31.05	-30.10	-29.94	-30.05	-30.09	-30.21	-30.38	-30.40
Insertion Loss	dB	-0.031	-0.036	-0.065	-0.09	-0.13	-0.18	-0.21	-0.27	-0.34
Directivity	dB	-36.09	-35.17	-35.76	-38.19	-43.13	-61.58	-43.32	-37.42	-33.69
VSWR	Input	/	1.03	1.03	1.02	1.02	1.02	1.03	1.04	1.05
	Transmission	/	1.01	1.01	1.02	1.02	1.01	1.01	1.01	1.02

典型曲线 Typical Performance Data:

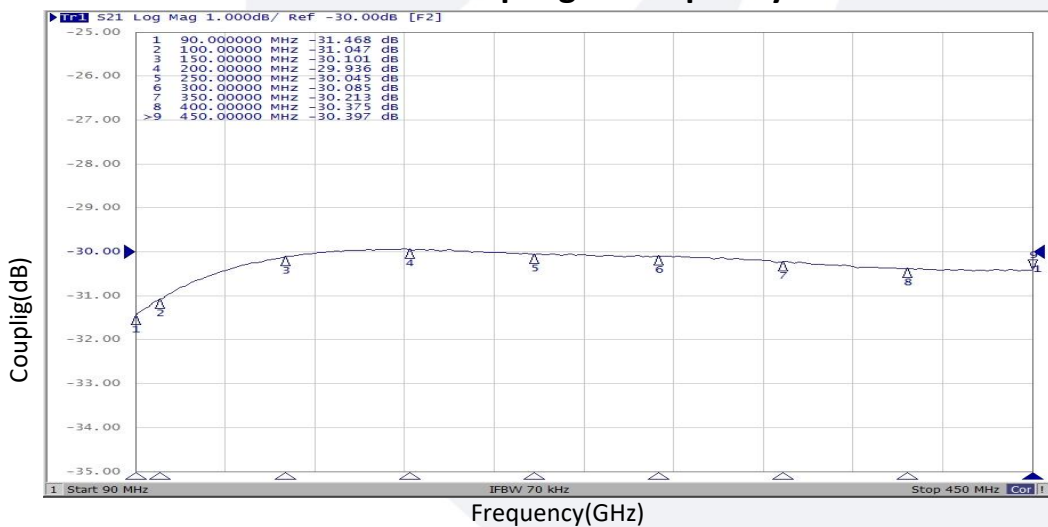
Input VSWR vs Frequency



Transmission VSWR vs Frequency



Coupling vs Frequency



典型曲线 Typical Performance Data:

Isolation vs Frequency



Insertion Loss vs Frequency

