

## 42dB Directional Coupler 0.03-0.52GHz

### 电气特性 Electrical:

工作频率 Frequency Range:	30-200MHz;200-520MHz
耦合度Coupling :	42 ± 1.2dB;42 ± 1.0dB
插入损耗 Insertion Loss:	0.10dB ;0.25dB
驻波 VSWR:	1.10:1 Max
方向性 Directivity:	28.0dB Min
耐功率 Power Handling:	300 Watt
阻抗 Impedance:	50 OHMS

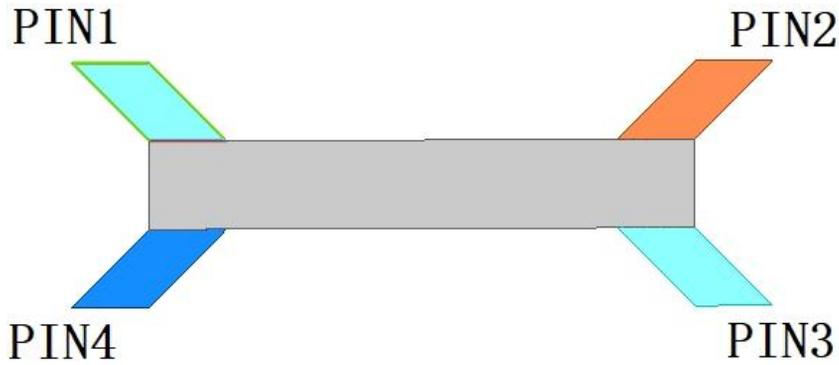
### 机械特性 Mechanical:

温度范围Temperature Range:	-55° C - +105° 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

### Hybrid Coupler Pin Configuration

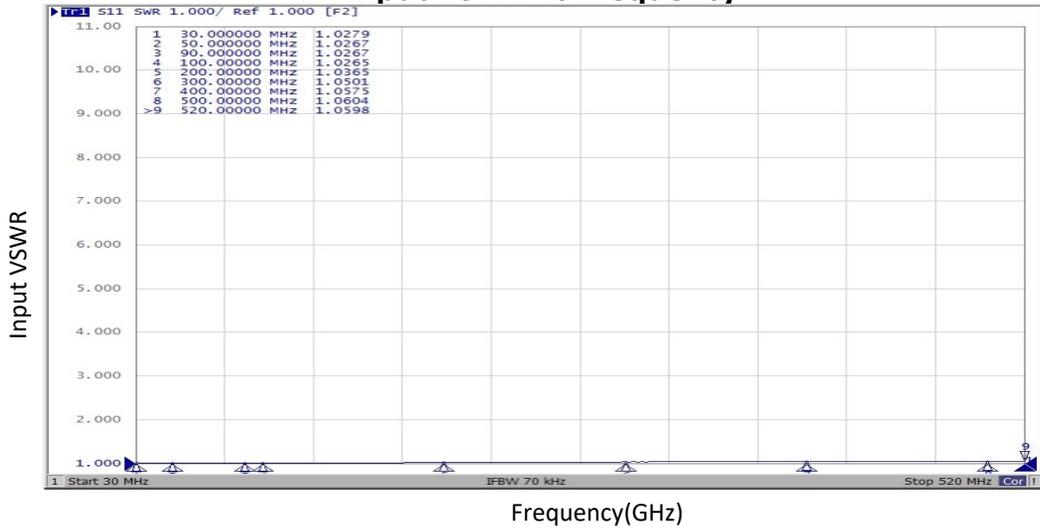


PIN1	PIN2	PIN3	PIN4
Input	Reflected Coupled	Transmission	Forward Coupled
Transmission	Forward Coupled	Input	Reflected Coupled

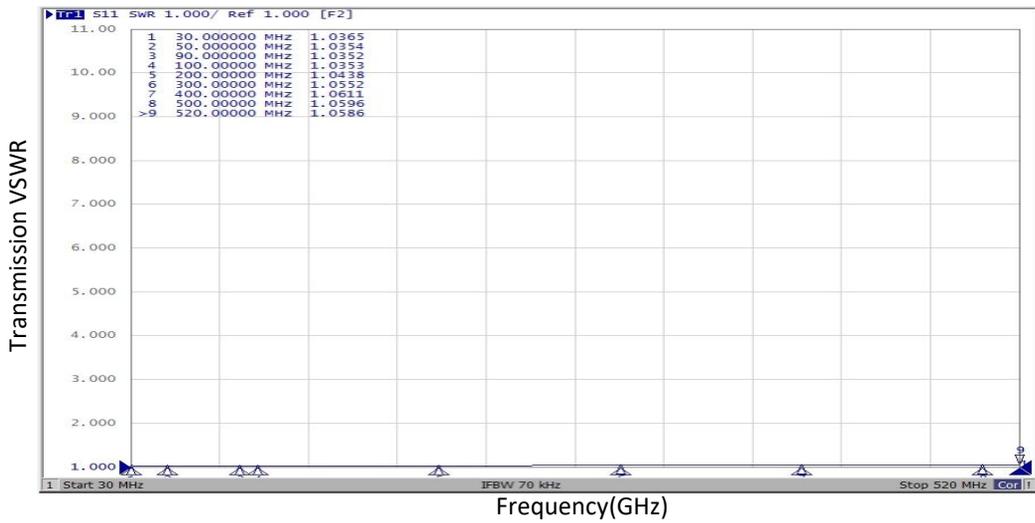
### Typical Performance Data

Frequency	MHz	30	50	90	100	200	300	400	500	520
Coupling	dB	-43.45	-41.51	-40.55	-40.55	-41.30	-41.77	-41.84	-41.72	-41.74
Insertion Loss	dB	-0.024	-0.028	-0.038	-0.041	-0.074	-0.138	-0.184	-0.233	-0.239
Directivity	dB	-33.94	-32.97	-31.57	-35.54	-30.35	-31.76	-31.55	-31.79	-32.09
VSWR	Input	/	1.03	1.03	1.03	1.03	1.04	1.05	1.06	1.06
	Transmission	/	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.05

## Input VSWR vs Frequency



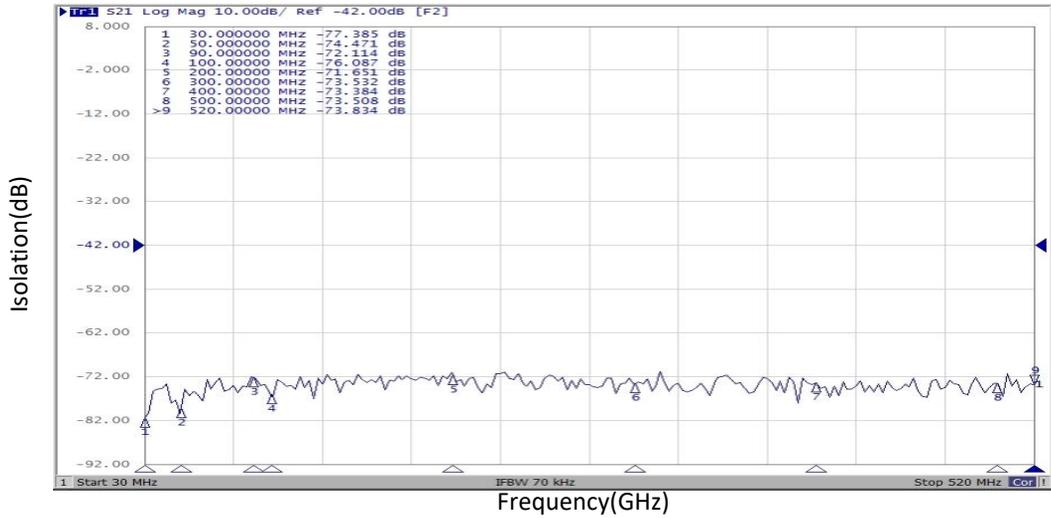
## Transmission VSWR vs Frequency



## Coupling vs Frequency

uplig(dB)

### Isolation vs Frequency



### Insertion Loss vs Frequency

