

Part No.: TDC-003052-45N-300-SMD

45dB Directional Coupler 0.03-0.52GHz

电气特性 Electrical:

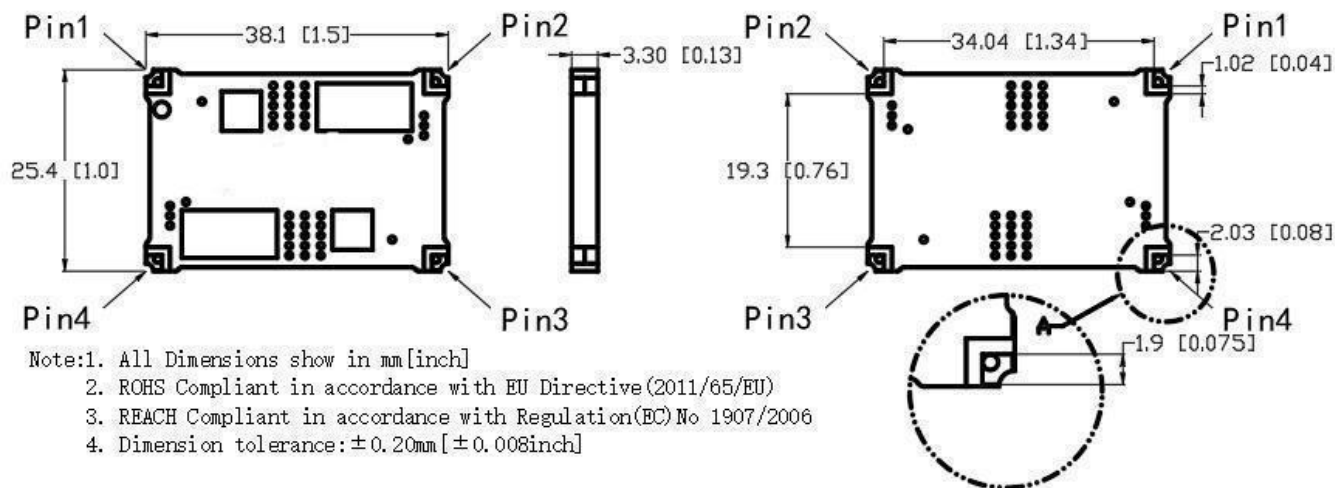
工作频率 Frequency Range:	30-520MHz
耦合度Coupling :	45 ± 1.0dB
插入损耗 Insertion Loss:	0.2dB Max
驻波 VSWR:	1.10:1 Max
方向性 Directivity:	25.0dB Min
耐功率 Power Handling:	300 Watt
阻抗 Impedance:	50 OHMS

机械特性 Mechanical:

温度范围Temperature Range:	-55° C - +105° C
大小Size:	38.1mm*25.4mm
厚度Thickness:	3.3mm
相对湿度Relative Humidity:	0 ~ 90%

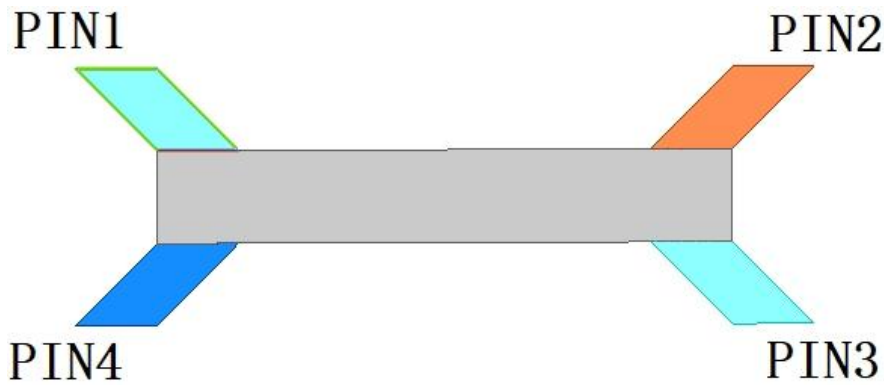
外形尺寸Outline Drawing:

Unit: mm



端口配置表 Port Configuration Table:

Hybrid Coupler Pin Configuration



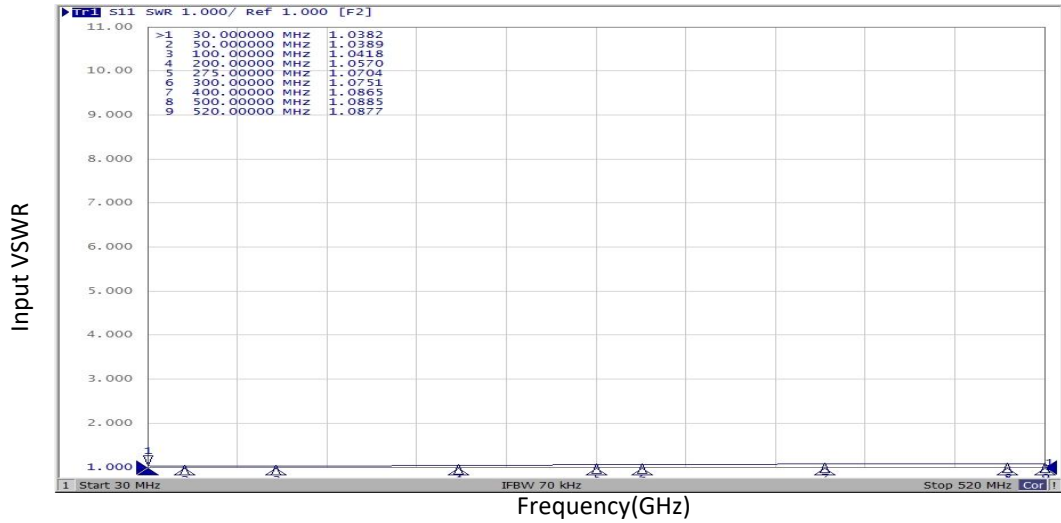
PIN1	PIN2	PIN3	PIN4
Input	Reflected Coupled	Transmission	Forward Coupled
Transmission	Forward Coupled	Input	Reflected Coupled

Typical Performance Data

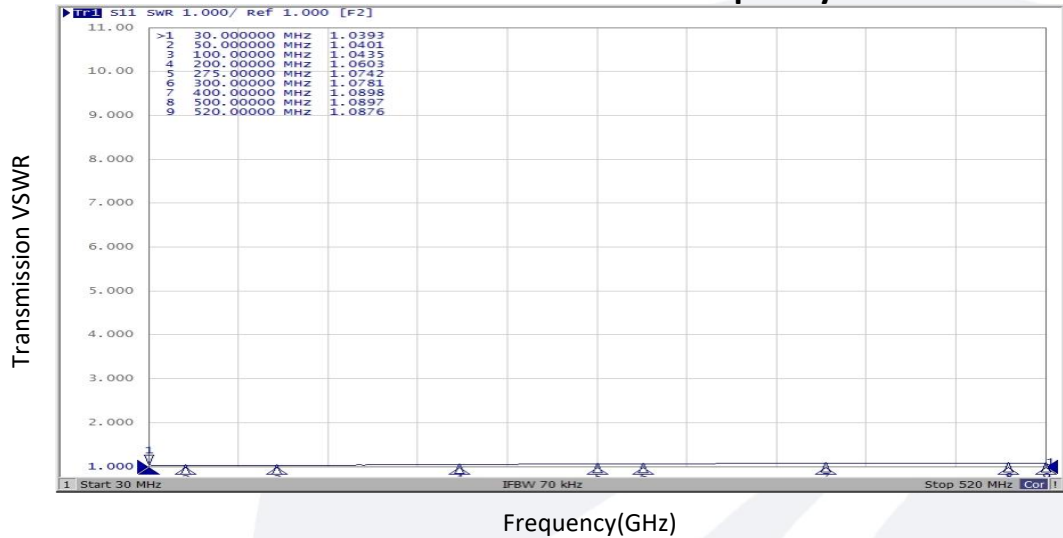
Frequency	MHz	30	50	100	200	275	300	400	500	520
Coupling	dB	-45.84	-44.57	-44.83	-45.05	-44.70	-44.74	-44.44	-44.16	-44.19
Insertion Loss	dB	-0.0002	-0.005	-0.02	-0.04	-0.09	-0.10	-0.12	-0.15	-0.15
Directivity	dB	-28.68	-27.71	-30.03	-28.17	-28.37	-28.49	-27.36	-28.26	-27.37
VSWR	Input	/	1.04	1.04	1.04	1.06	1.07	1.08	1.09	1.09
	Transmission	/	1.04	1.04	1.04	1.06	1.07	1.08	1.09	1.09

典型曲线 Typical Performance Data:

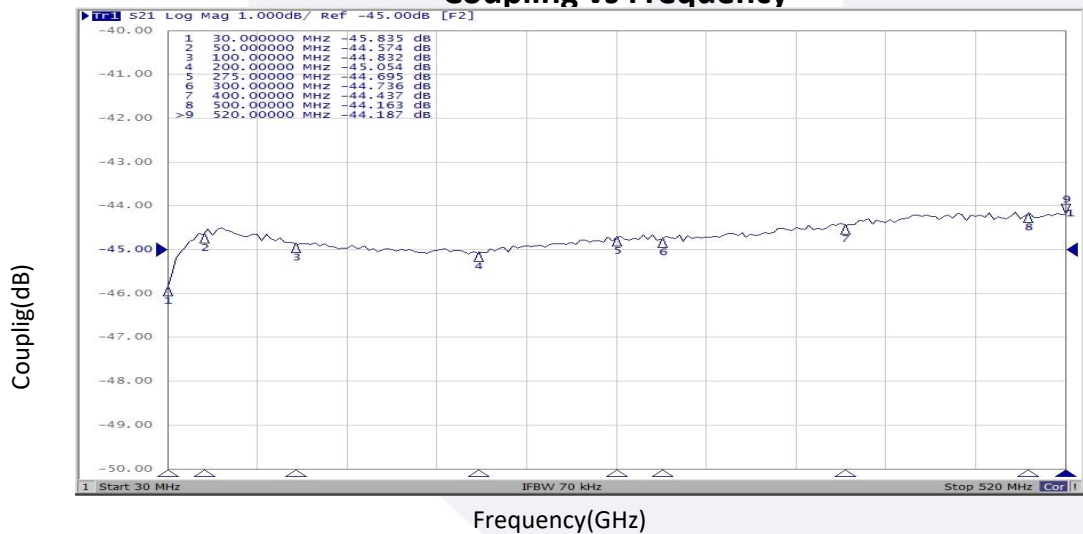
Input VSWR vs Frequency



Transmission VSWR vs Frequency

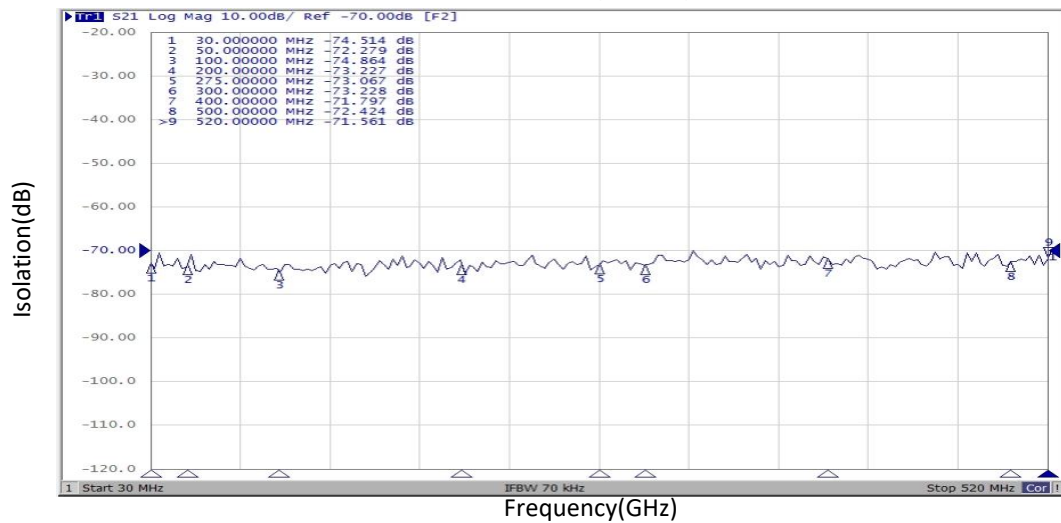


Coupling vs Frequency



典型曲线 Typical Performance Data:

Isolation vs Frequency



Insertion Loss vs Frequency

