

Part No.: TDC-002100-41N-300-SMD

41dB Directional Coupler 0.2-1GHz

电气特性 Electrical:

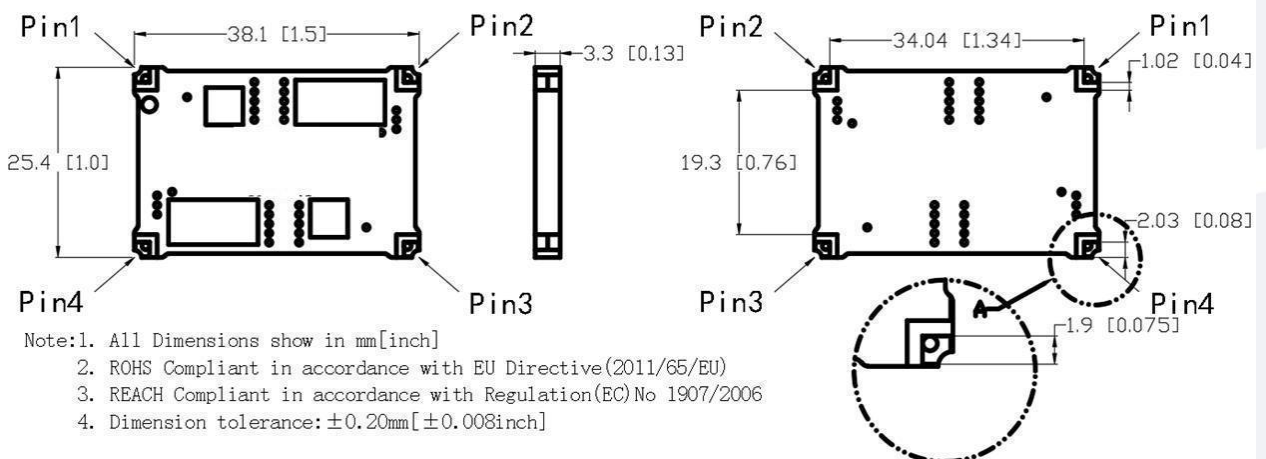
工作频率 Frequency Range: 200-1000MHz
 耦合度 Coupling : $41 \pm 1.0\text{dB}$
 插入损耗 Insertion Loss: 0.15dB Max
 驻波 VSWR: 1.15:1 Max
 方向性 Directivity: 25.0dB Min
 耐功率 Power Handling: 300 Watt
 阻抗 Impedance: 50 OHMS

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:

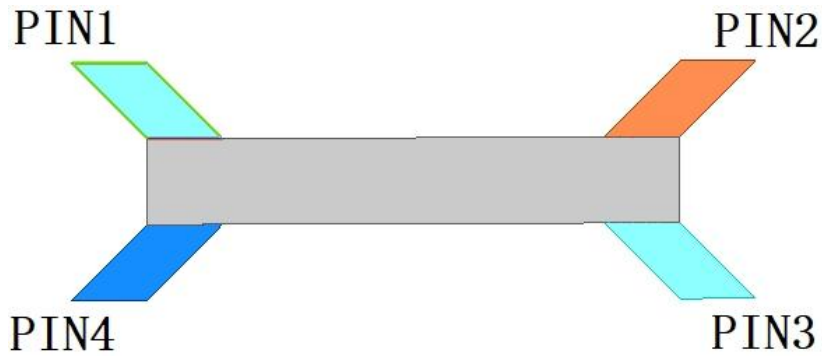
Unit: mm



- Note: 1. All Dimensions show in mm[inch]
 2. ROHS Compliant in accordance with EU Directive(2011/65/EU)
 3. REACH Compliant in accordance with Regulation(EC)No 1907/2006
 4. Dimension tolerance: $\pm 0.20\text{mm} [\pm 0.008\text{inch}]$

端口配置表 Port Configuration Table:

Hybrid Coupler Pin Configuration



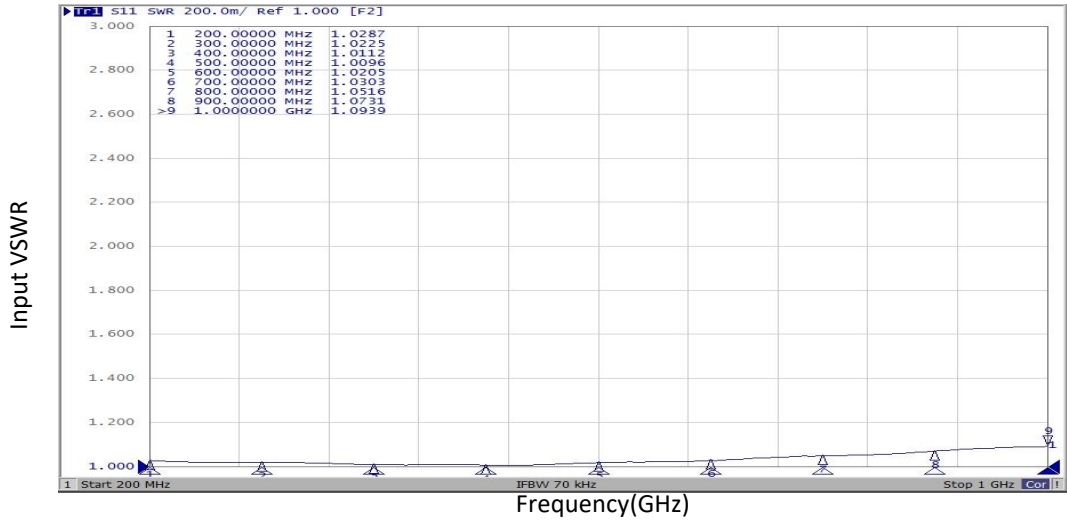
PIN1	PIN2	PIN3	PIN4
Input	Reflected Coupled	Transmission	Forward Coupled
Transmission	Forward Coupled	Input	Reflected Coupled

Typical Performance Data

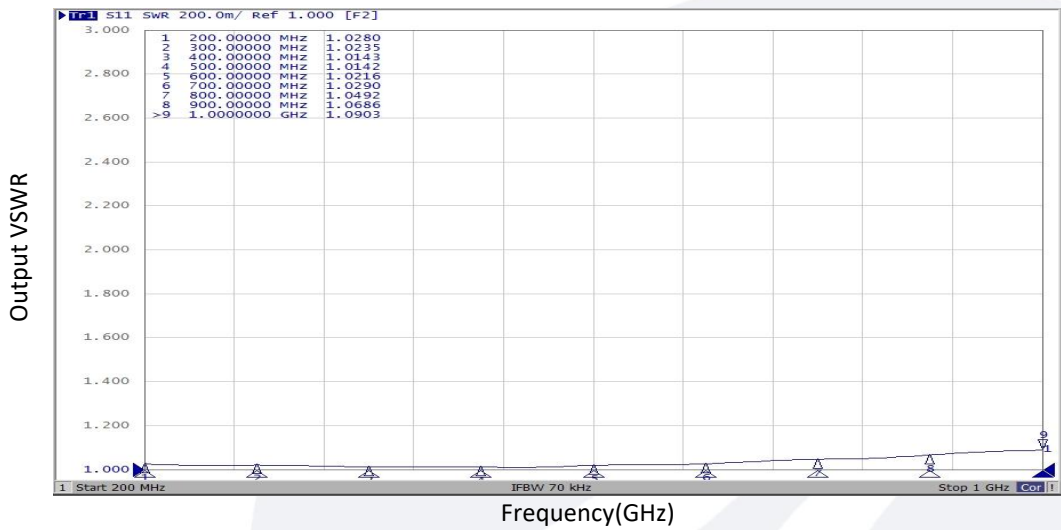
Frequency	MHz	200	300	400	500	600	700	800	900	1000	
Coupling	dB	-41.89	-40.69	-40.52	-40.80	-41.13	-41.30	-41.27	-41.02	-40.57	
Insertion Loss	dB	-0.025	-0.039	-0.038	-0.042	-0.058	-0.056	-0.077	-0.092	-0.11	
Directivity	dB	-31.92	-33.17	-31.13	-31.87	-37.36	-40.51	-45.18	-38.69	-35.80	
VSWR	Input	/	1.03	1.02	1.01	1.01	1.02	1.03	1.05	1.07	1.09
	Transmission	/	1.03	1.02	1.01	1.01	1.02	1.03	1.05	1.07	1.09

典型曲线 Typical Performance Data:

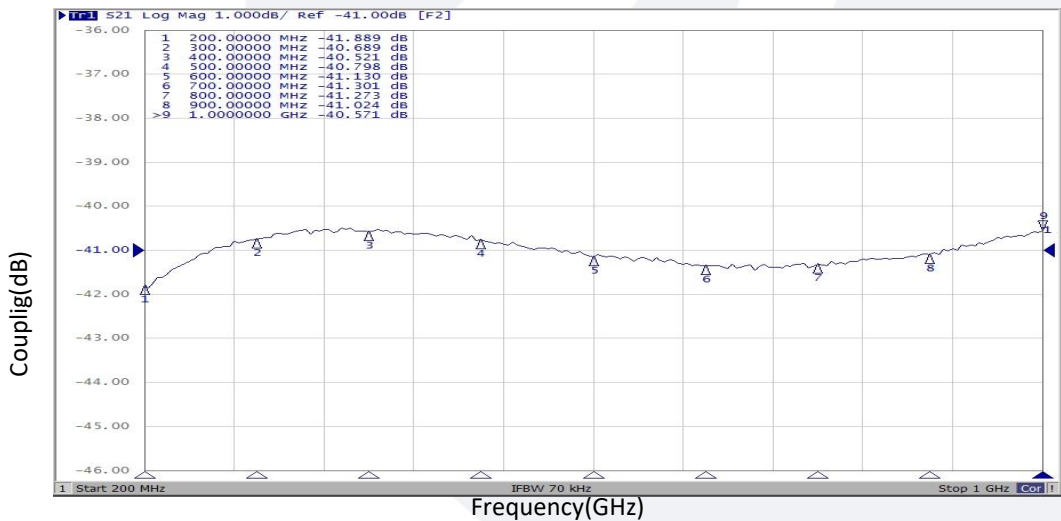
Input VSWR vs Frequency



Output VSWR vs Frequency

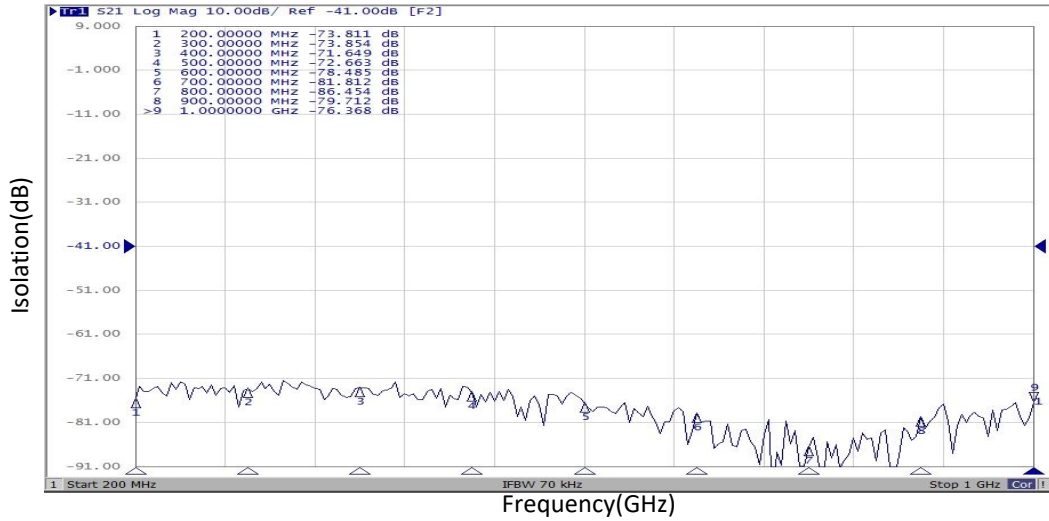


Coupling vs Frequency



典型曲线 Typical Performance Data:

Isolation vs Frequency



Insertion Loss vs Frequency

