泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
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High Power Dual-Directional Coupler

0.001-0.5GHz/50dB Coupling/N,SMA Model: TDC-000105-50N-1000

TDC-000105-50N-1000 is a high power dual-directional coupler that delivers a 20 dB nominal coupling level and 20 dB minimum directivity across the full frequency range from 0.001 to 0.5 GHz. It is a four-port passive device that can couple a portion of the power from the main transmission line to the auxiliary line in a directional manner.

Features:

- Output Frequency: 0.001-0.5 GHz
- Max Power: 1000W(CW)
- Stackable mechanical design
- Low Insertion Loss
- Moderate Directivity
- 50 Ohm Matched Input / Output

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
工作频率 Frequency Range	0.001		0.5	GHz
插入损耗 Insertion Loss(Excl coupling)			0.2	dB
耦合度 Coupling		50±1		dB
方向性 Directivity	20			dB
主线驻波 Main Line VSWR			1.3	:1
耐功率 Power Handling			1000(CW)	W
阻抗 Impedance		50		Ohms

机械特性 Mechanical Specifications:

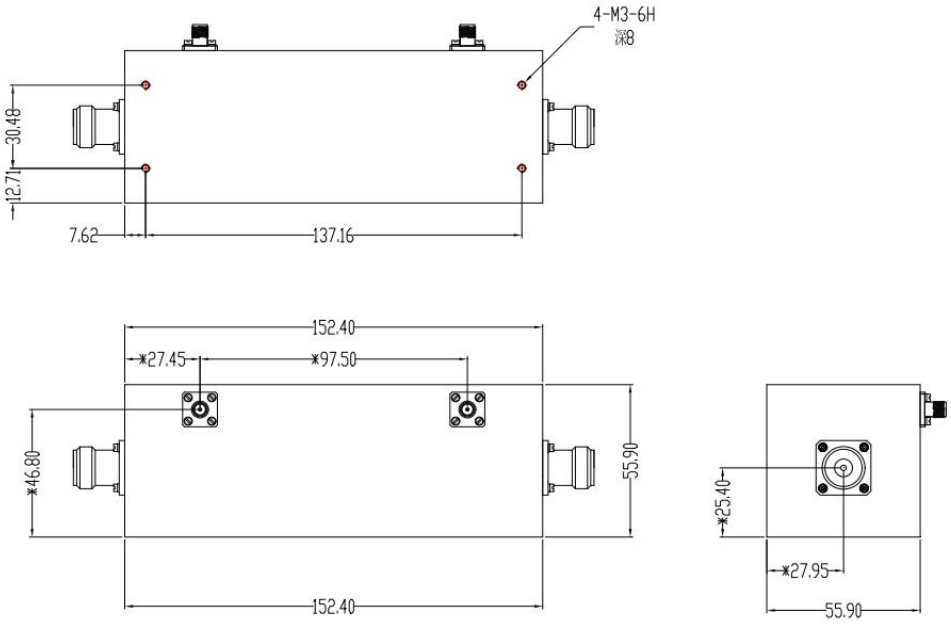
参数 Parameter	指标 Value	单位 Units
RF接口 RF Connector	SMA Female/N Female	
表面 Finish	Ture color conductive oxide	
尺寸 Size	152.4*55.9*55.9	mm

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外形图 Outline Drawing:

Unit:mm; Tolerance:±0.2mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
工作温度 Operating Temperature	-55		+85℃	
相对湿度 Relative humidity	100% RH at 35c, 95%RH at 40℃			%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TDC-000105-50N-1000	High Power Dual-Directional Coupler 0.001-0.5 GHz, Coulping:50dB, SMA Female/N Female	Rev.1.0