泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
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High Power Dual-Directional Coupler

9KHz-260MHz/50dB Coupling/N Female Model: TDC-9K002-50N-1000

TDC-9K002-50N-1000 is a high power dual-directional coupler that delivers a 50 dB nominal coupling level and 14 dB minimum directivity across the full frequency range from 9KHz to 260MHz. 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: 9KHz-260MHz
- Max Power: 1000W
- 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		0.009		260	MHz
插入损耗 Insertion Loss(Excl coupling)				0.25	dB
耦合度 Coupling			50±1		dB
耦合平坦度 Coupling flatness				±0.5	dB
方向性 Directivity	@9-20KHz	14			dB
	@20KHz-260MHz	18			dB
主线驻波 Main Line VSWR				1.2	:1
耦合口驻波 Coupling Port VSWR				1.3	:1
耐功率 Power Handling				1000	W
阻抗 Impedance			50		Ohms

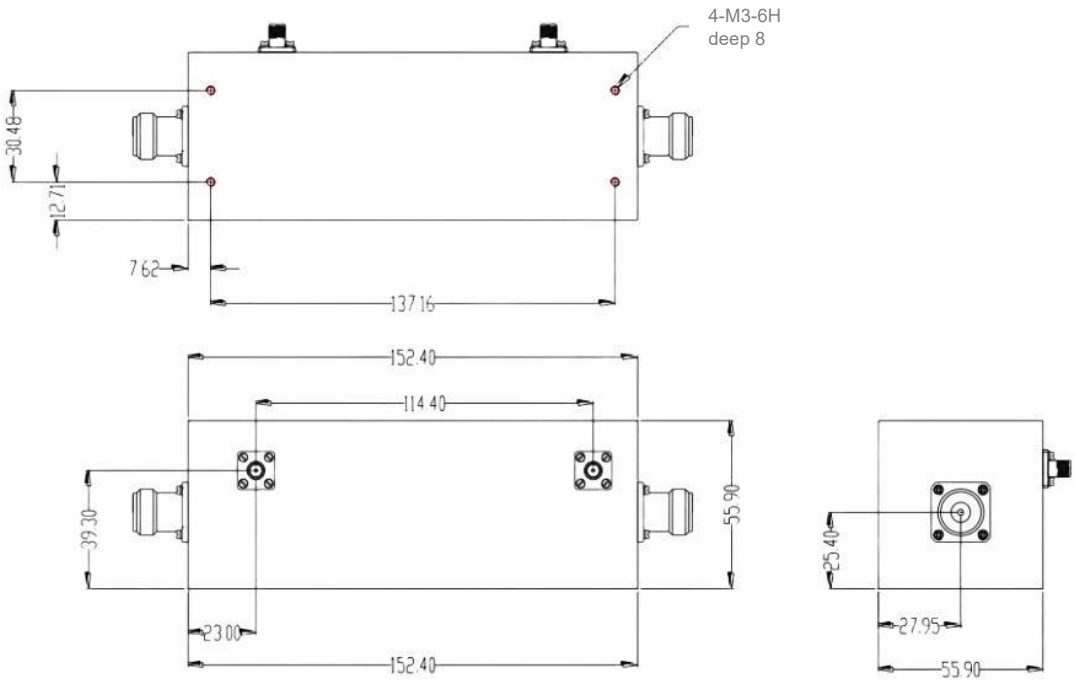
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
操作温度 Operating Temperature	-55 to +85	℃
RF接口 RF Connector	N Female	
耦合接口 Coupling Connector	SMA Female	
尺寸 Size	152.4*55.9*55.9	mm

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外形图 Outline Drawing:

Unit:mm



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

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TDC-9K002-50N-1000	High Power Dual-Directional Coupler 0.009-260MHz, Coulping:50dB, N Female	Rev.1.0