泰莱微波 Talent Microwave

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High Power Dual-Directional Coupler

9KHz-0.25GHz/60dB Coupling/1-5/8", N-K Model: TDC-9K002-60(1-5/8)-10000

TDC-9K002-60(1-5/8)-10000 is a high power dual-directional coupler that delivers a 60 dB nominal coupling level and 20 dB minimum directivity across the full frequency range from 9KHz to 0.25 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: 9KHz-0.25 GHz
- Max Power: 10000W(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		9KHz		0.25	GHz
插入损耗 Insertion Loss(Excl coupling)				0.2	dB
耦合度 Coupling			60±1		dB
耦合平坦度 Coupling Flatness				±1	dB
方向性 Directivity	@9KHz-100MHz	20			dB
	@100MHz-250MHz	15			
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:

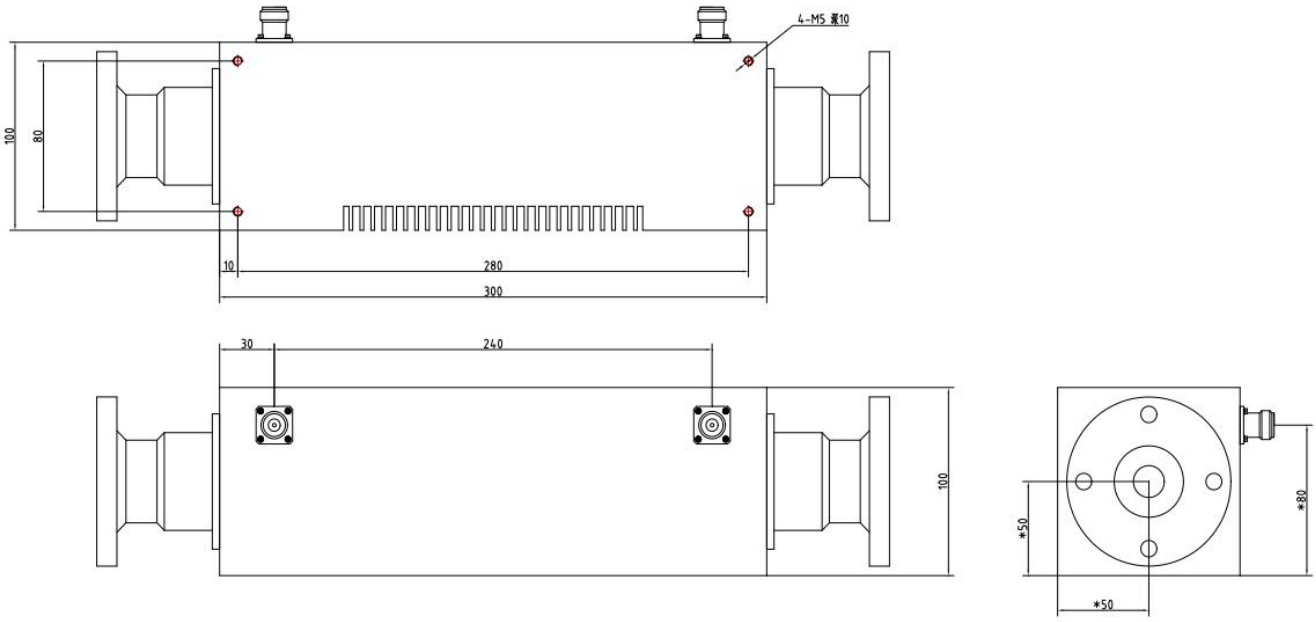
参数 Parameter	指标 Value	单位 Units
RF接口 RF Connector	1-5/8", N-K	
表面 Finish	Ture color conductive oxide	
尺寸 Size	300*100*80	mm

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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-9K002-60(1-5/8)-10000	High Power Dual-Directional Coupler 9KHz-0.25 GHz, Coulping:60dB, 1-5/8”, N-K	Rev.1.0