泰莱微波 Talent Microwave

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High Power Directional Coupler

0.5-18GHz/30dB Coupling/N-K,N-J/SMA-K

Model: TDC-05180-30N-400W

TDC-05180-30N-400W is a high power directional coupler that delivers a 30 dB nominal coupling level and 12 dB minimum directivity across the full frequency range from 0.5 to 18GHz. It is a three-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: 0.5-18GHz
- Max Power: 400W(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		0.5		18	GHz
插入损耗 Insertion Loss(Excl coupling)	@0.5-8GHz			0.7	dB
	@8-18GHz			1.0	dB
耦合度 Coupling			30±1.2		dB
耦合平坦度 Coupling Flatness				±1.5	dB
方向性 Directivity	@0.5-8GHz	12			dB
	@8-18GHz	10			dB
主线驻波 Main Line VSWR	@0.5-8GHz			1.4	:1
	@8-18GHz			1.5	:1
副线驻波 Multi-line VSWR	@0.5-8GHz			1.5	:1
	@8-18GHz			1.6	:1
平均功率 Average power			400(CW) 3000(PK)		W
阻抗 Impedance			50		Ohms

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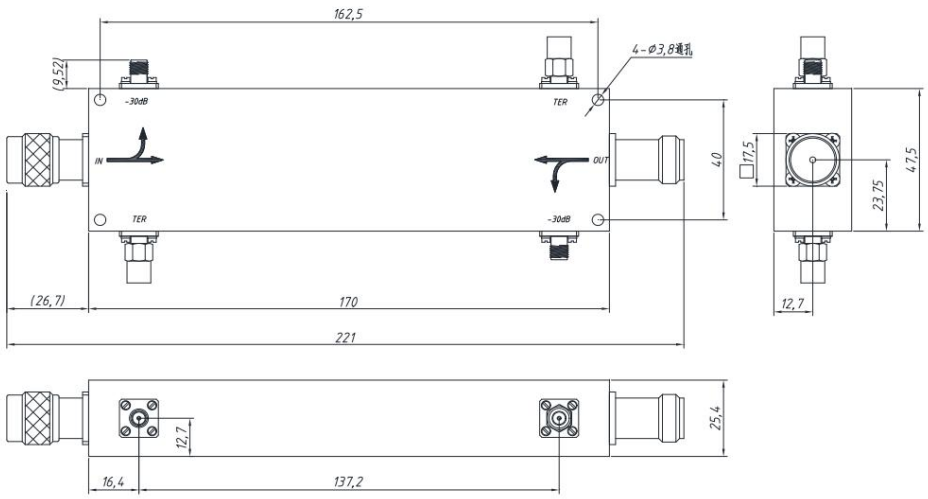
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
RF接口 RF Connector	N-K ;N-J/ SMA-K	
表面 Finish	Conductive oxidation	
尺寸 Size	221*47.5*25.4	mm
操作温度 Operating Temperature	-55-+85	℃

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.2mm



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-05180-30N-400W	High Power Directional Coupler 0.5-18 GHz, Coulping:30dB, N-K ;N-J/ SMA-K	Rev.1.0