泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

High Power Directional Coupler

8-12.5GHz/30dB Coupling/N&SMA-Female Model: TC-80125-30N-400W

TC-80125-30N-400W is a high power directional coupler that delivers a 30 dB nominal coupling level and 15 dB minimum directivity across the full frequency range from 8 to 12.5GHz. 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: 8-12.5GHz
- Max Power: 400W
- 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	8		12.5	GHz
插入损耗 Insertion Loss(Excl coupling)			0.25	dB
耦合度 Coupling		30±1		dB
耦合度平坦度 Coupling Flatness		±0.7		dB
方向性 Directivity	15			dB
主线驻波 Main Line VSWR			1.4	:1
耐功率 Power Handling			400	W
阻抗 Impedance		50		Ohms

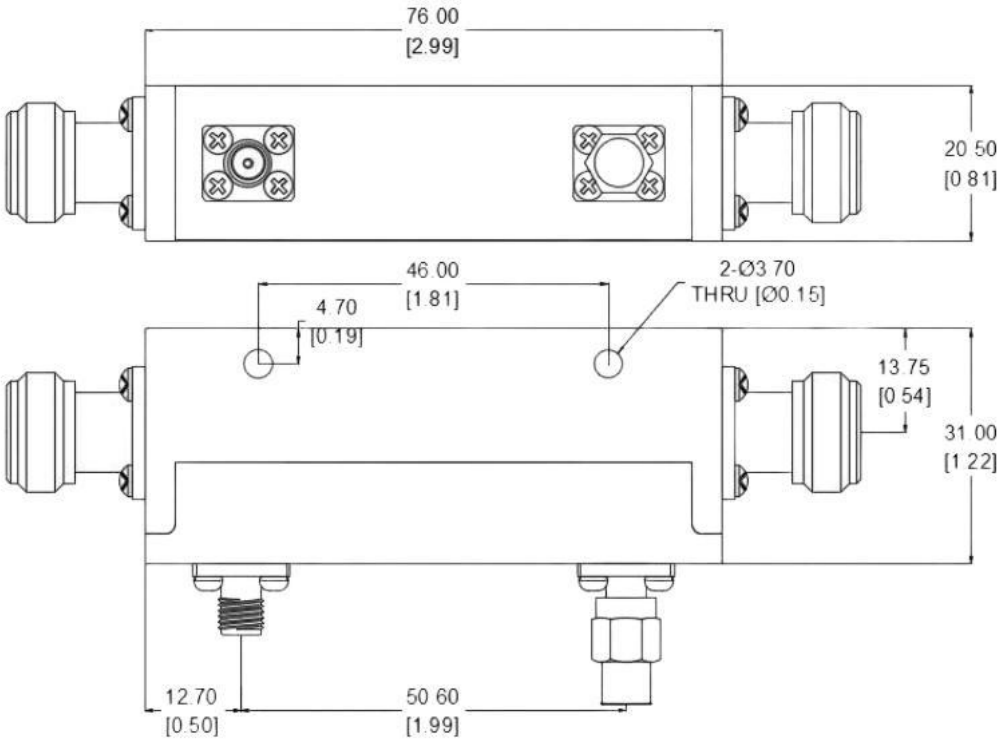
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
RF接口 RF Connector	N-Female	
耦合接口 Coupling Connector	SMA-Female	
尺寸 Size	76*31*20.5	mm

泰莱微波
Talent Microwave
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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
操作温度 Operating Temperature	-32		+85	℃
相对湿度 Relative humidity	0		90	%

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TC-80125-30N-400W	High Power Directional Coupler 8-12.5GHz, Coulping:30dB, N Female	Rev.1.0