Suzhou Talent Microwave,Inc
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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

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	8		12.5	GHz
Insertion Loss(Excl coupling)			0.25	dB
Coupling		30±1		dB
Coupling Flatness		±0.7		dB
Directivity	15			dB
Main Line VSWR			1.4	:1
Power Handling			400	W
Impedance		50		Ohms

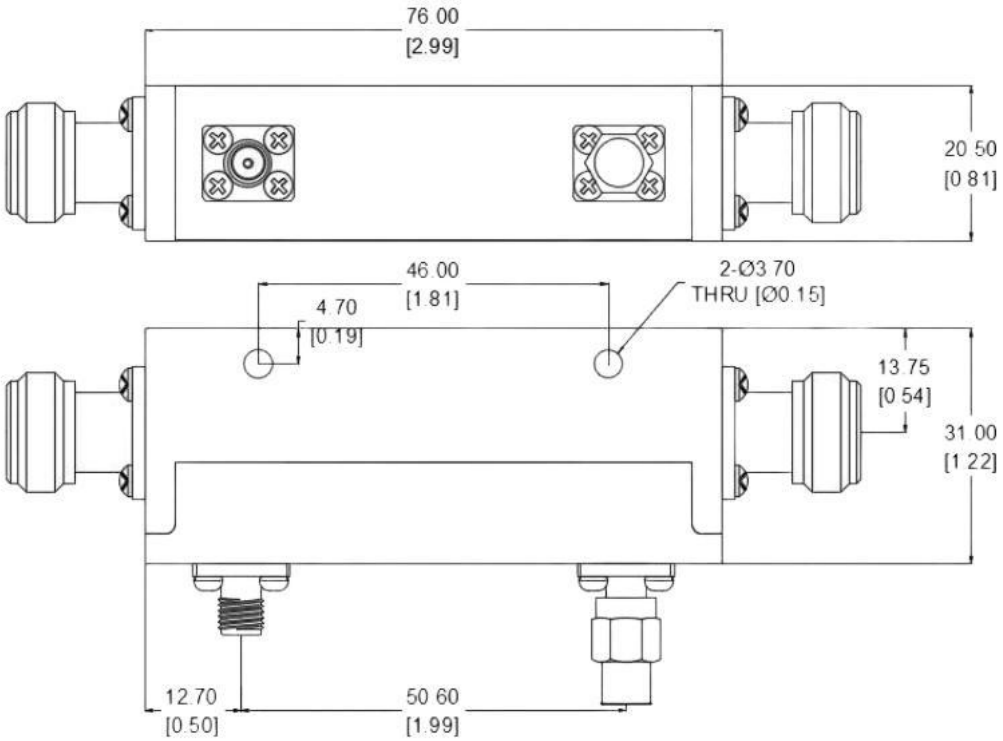
Mechanical Specifications:

Parameter	Value	Units
RF Connector	N-Female	
Coupling Connector	SMA-Female	
Size	76*31*20.5	mm

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Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-32		+85	℃
Relative humidity	0		90	%

Ordering Information:

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