Suzhou Talent Microwave,Inc
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High Power Directional Coupler

0.8-2.3GHz/50dB Coupling/N Female Model: TC-0823-50N-300W

TC-0823-50N-300W is a high power directional coupler that delivers a 50 dB nominal coupling level and 5 dB minimum directivity across the full frequency range from 0.8 to 2.3GHz. 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: 0.8-2.3GHz
- Max Power: 300W
- 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	0.8		2.3	GHz
Insertion Loss(Excl coupling)		0.8		dB
Coupling		50±1.8		dB
Directivity	5	8		dB
Main Line VSWR			1.3	:1
Power Handling			300	W
Impedance		50		Ohms

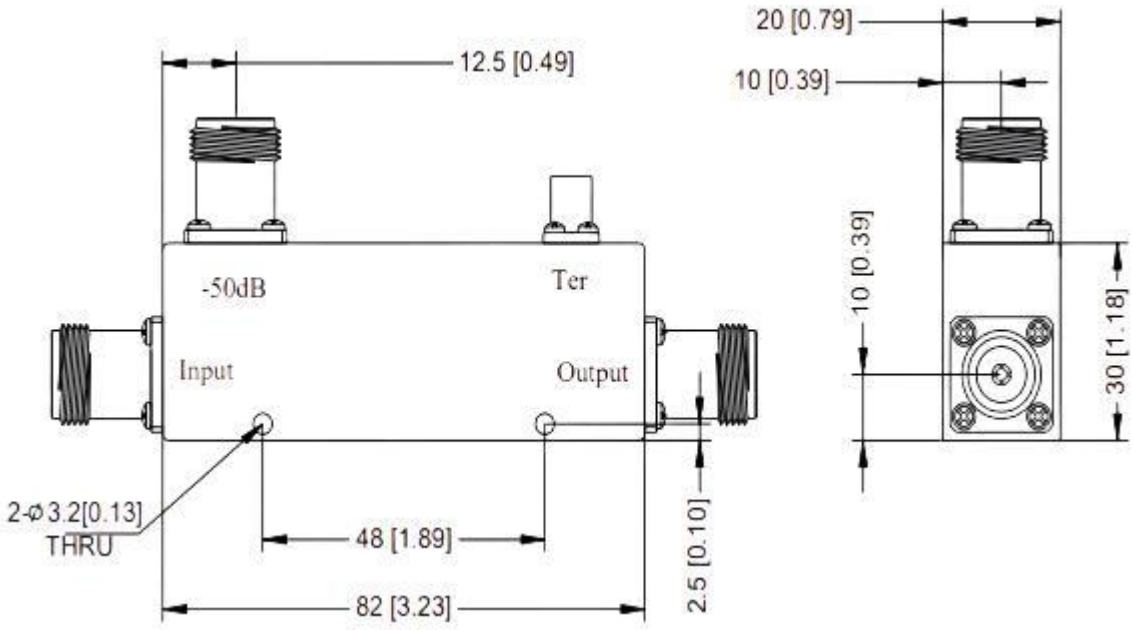
Mechanical Specifications:

Parameter	Value	Units
Operating Temperature	-45 to +85	℃
RF Connector	N Female	
Coupling Connector	N Female	
Size	82*30*20	mm

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Outline Drawing:

Unit:mm



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

Ordering Information:

Base Number	Description	Revision
TC-0823-50N-300W	High Power Directional Coupler 0.8-2.3GHz, Coulping:50dB, N Female	Rev.1.0