Suzhou Talent Microwave,Inc
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High Power Directional Coupler

4-8GHz/50dB Coupling/N Female

Model: TC-4080-50N-100W

TC-4080-50N-100W is a high power directional coupler that delivers a 50 dB nominal coupling level and 8 dB minimum directivity across the full frequency range from 4 to 8GHz. 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: 4-8GHz
- Max Power: 100W
- 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	4		8	GHz
Insertion Loss(Excl coupling)			1.0	dB
Coupling		50±1		dB
Directivity	8			dB
Main Line VSWR			1.5	:1
Power Handling			100	W
Impedance		50		Ohms

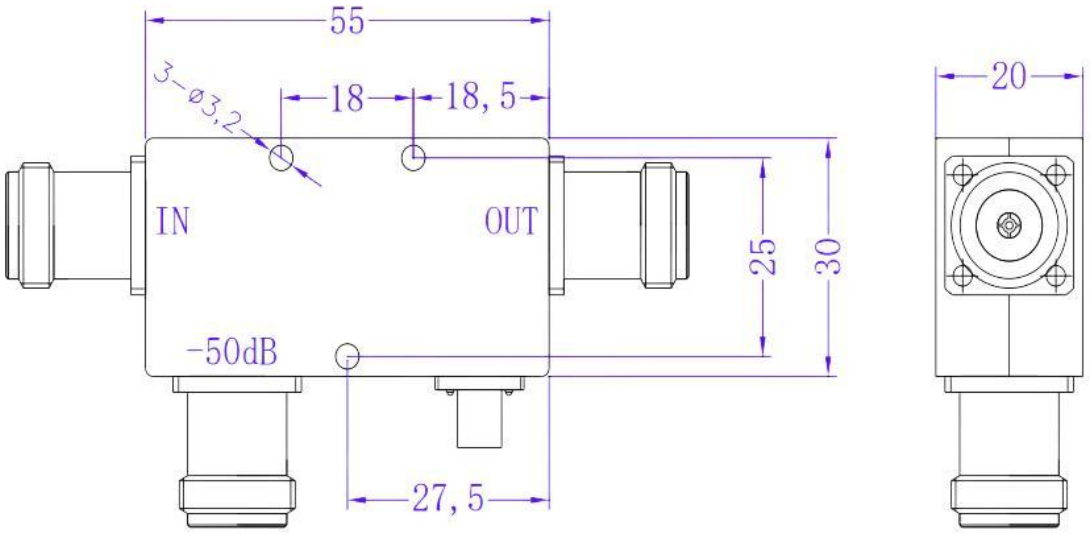
Mechanical Specifications:

Parameter	Value	Units
Operating Temperature	-40 to +80	℃
RF Connector	N Female	
Coupling Connector	N Female	
Size	55*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-4080-50N-100W	High Power Directional Coupler 4-8GHz, Coulping:50dB, N Female	Rev.1.0