Suzhou Talent Microwave,Inc
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High Power Directional Coupler

0.5-6GHz/50dB Coupling/N Female,SMA-Female Model: TDC-0560-50N-500W

TDC-0560-50N-500W is a high power directional coupler that delivers a 50 dB nominal coupling level and 12 dB minimum directivity across the full frequency range from 0.5 to 6 GHz. It is a 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: 0.5-6GHz
- Max Power: 500W
- 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	0.5		6	GHz
Insertion Loss(Excl coupling)			0.6	dB
Coupling		50±1		dB
Coupling Flatness			±1.5	dB
Directivity	12			dB
Main Line VSWR			1.3	:1
Coupling Port VSWR			1.4	:1
Power Handling			500	W
Impedance		50		Ohms

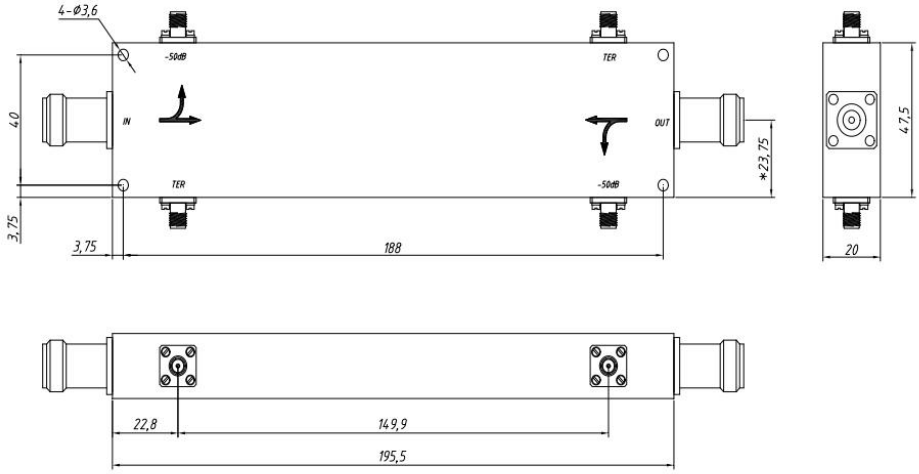
Mechanical Specifications:

Parameter	Value	Units
Operating Temperature	-55 to +85	℃
RF Connector	N Female	
Coupling Connector	SMA Female	
Size	195.5*56*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
TDC-0560-50N-500W	High Power Directional Coupler 0.5-6GHz, Coulping:50dB, N Female/SMA Female	Rev.1.0