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

High Power Directional Coupler

0.01-100MHz/50dB Coupling/N Female Model: TC-10K001-50N-500

TC-10K001-50N-500 is a high power directional coupler that delivers a 50 dB nominal coupling level and 16 dB minimum directivity across the full frequency range from 0.01 to 100MHz. 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: 0.01-100MHz
- 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	0.01		100	MHz
Insertion Loss(Excl coupling)			0.5	dB
Coupling		50±1.5		dB
Directivity	16			dB
Main Line VSWR			1.3	:1
Power Handling			500	W
Impedance		50		Ohms

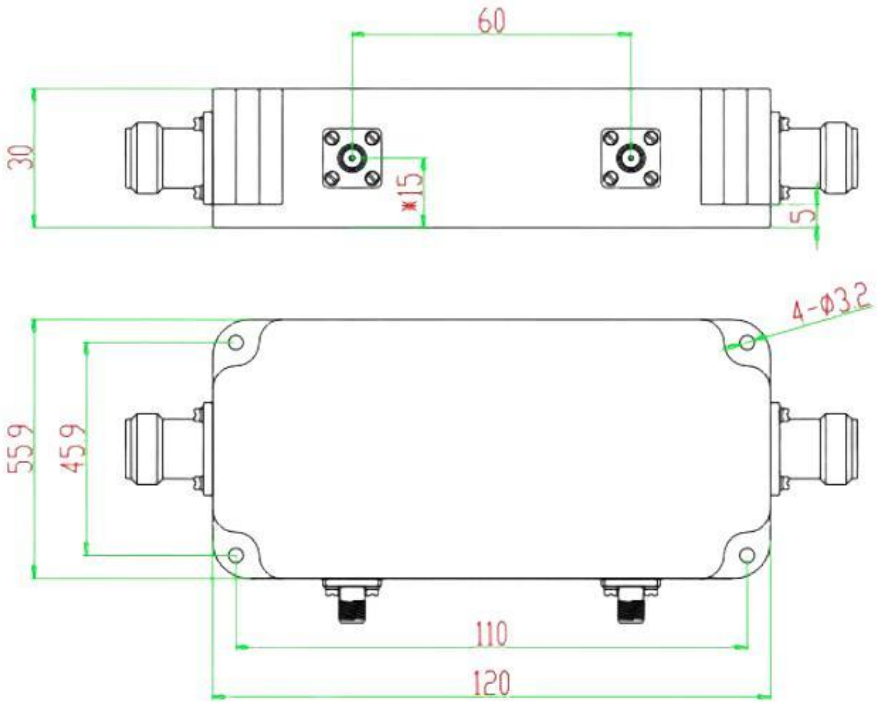
Mechanical Specifications:

Parameter	Value	Units
Operating Temperature	-55 to +85	℃
RF Connector	N Female	
Coupling Connector	SMA Female	
Size	120*55.9*30	mm

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

Outline Drawing:

Unit:mm



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

Ordering Information:

Base Number	Description	Revision
TC-10K001-50N-500	High Power Directional Coupler 0.01-100MHz, Coulping:50dB, N Female	Rev.1.0