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

High Power Directional Coupler

0.5-18GHz/30dB Coupling/N-K,N-J/SMA-K

Model: TDC-05180-30N-400W

TDC-05180-30N-400W is a high power directional coupler that delivers a 30 dB nominal coupling level and 12 dB minimum directivity across the full frequency range from 0.5 to 18GHz. 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: 0.5-18GHz
- Max Power: 400W(CW)
- 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		18	GHz
Insertion Loss(Excl coupling)	@0.5-8GHz			0.7	dB
	@8-18GHz			1.0	dB
Coupling			30±1.2		dB
Coupling Flatness				±1.5	dB
Directivity	@0.5-8GHz	12			dB
	@8-18GHz	10			dB
Main Line VSWR	@0.5-8GHz			1.4	:1
	@8-18GHz			1.5	:1
Multi-line VSWR	@0.5-8GHz			1.5	:1
	@8-18GHz			1.6	:1
Average power			400(CW) 3000(PK)		W
Impedance			50		Ohms

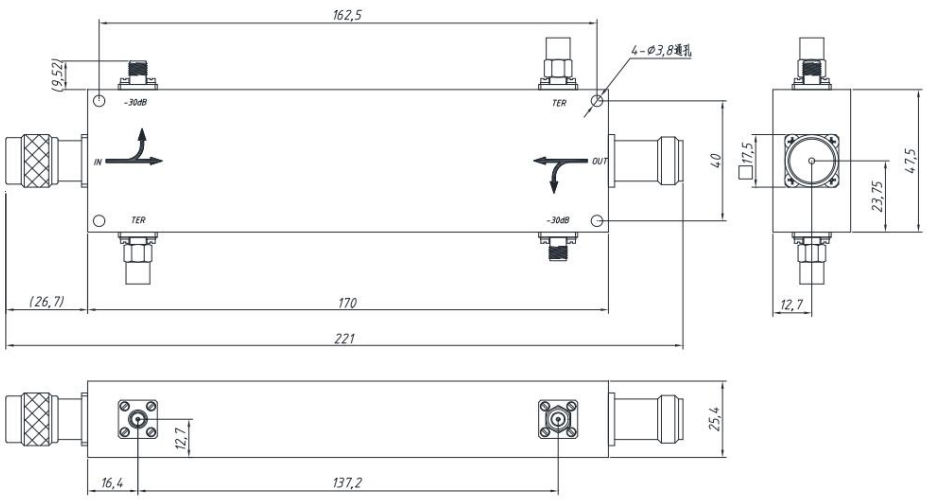
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Mechanical Specifications:

Parameter	Value	Units
RF Connector	N-K ;N-J/ SMA-K	
Finish	Conductive oxidation	
Size	221*47.5*25.4	mm
Operating Temperature	-55-+85	℃

Outline Drawing:

Unit:mm; Tolerance:±0.2mm



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

Ordering Information:

Base Number	Description	Revision
TDC-05180-30N-400W	High Power Directional Coupler 0.5-18 GHz, Coulping:30dB, N-K ;N-J/ SMA-K	Rev.1.0