Suzhou Talent Microwave,Inc
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Coax Directional Coupler

0.5-18GHz/30dB Coupling/SMA Female

Model: TC-05180-30S-50W

TC-05180-30S-50W is a coaxial directional coupler that delivers a 30 dB nominal coupling level and 10 dB minimum directivity across the full frequency range from 0.5 to 18 GHz. 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
- Coupling: 30dB Typ
- 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)		1.0	1.8	dB
Coupling		30±1		dB
Directivity	10	12		dB
Power Handling			50	W
VSWR			1.7	:1
Impedance		50		Ohms

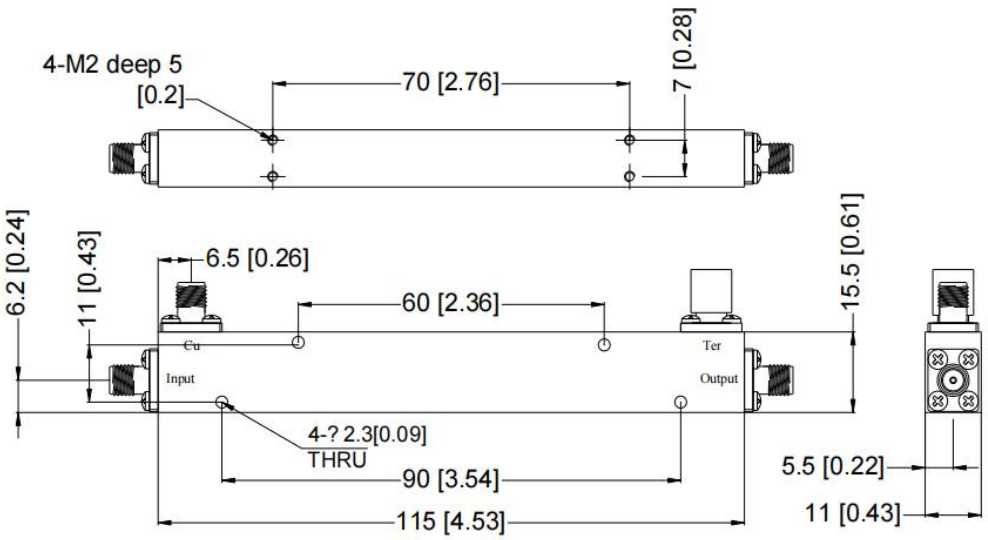
Mechanical Specifications:

Parameter	Value	Units
Operating Temperature	-55-+85	℃
Input/Output Connector	SMA Female/SMA Female	
Size	115*15.5*11	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-05180-30S-50W	Coaxial Directional Coupler 0.5-18GHz, Coulping:30dB, SMA Female	Rev.1.0