Suzhou Talent Microwave,Inc
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Coax Directional Coupler

10-67GHz/20dB Coupling/1.85mm Female

Model: TC-100670-20-1.85

TC-100670-20-1.85 is a coaxial directional coupler that delivers a 20 dB nominal coupling level and 8 dB minimum directivity across the full frequency range from 10 to 67 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: 10-67GHz
- Coupling: 20dB 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	10		67	GHz
Insertion Loss (Excl Coupling)			2.0	dB
Coupling		20		dB
Coupling Accuracy			±1.5	dB
Directivity	8	10		dB
Power Handling			10	W
VSWR			2.0	:1
Impedance		50		Ohms

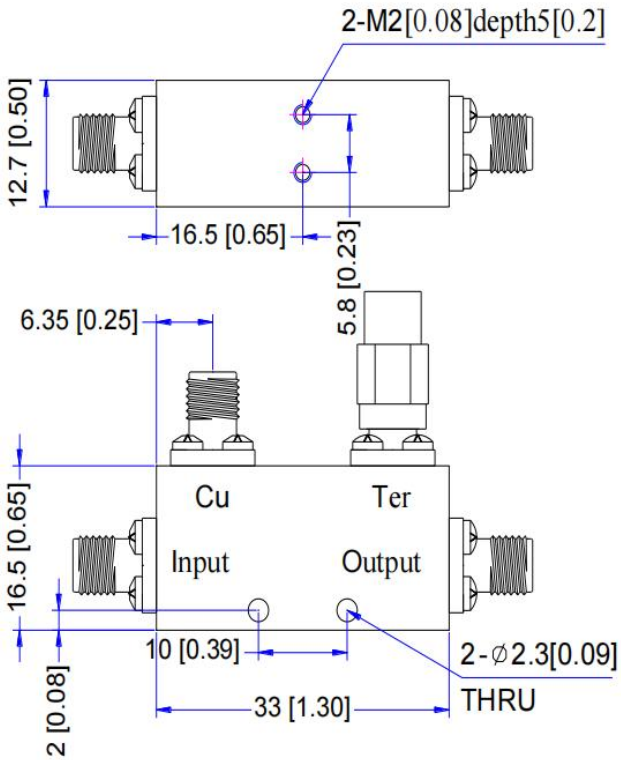
Mechanical Specifications:

Parameter	Value	Units
Input/Output Connector	1.85mm Female/1.85mm Female	
Size	33*16.5*12.7	mm

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Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Temperature Range	-45		+85	℃
Relative humidity	100% RH at 35c, 95%RH at 40℃			%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Base Number	Description	Revision
TC-100670-20-1.85	Coaxial Directional Coupler 10-67GHz, Coulping:20dB, 1.85mm Female	Rev.1.0