泰莱微波
Talent Microwave

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High Power Dual-Directional Coupler

18-50GHz/20dB Coupling/2.4mm Female Model: TDC-180500-20-2.4

TDC-180500-20-2.4 is a high power dual-directional coupler that delivers a 20 dB nominal coupling level and 10dB minimum directivity across the full frequency range from 18 to 50GHz. It is a four-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: 18-50GHz
- Max Power: 30W
- 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	18		50	GHz
Insertion Loss(Excl coupling)		1.4	2.0	dB
Coupling		20±1.5		dB
Directivity	10	12		dB
Main Line VSWR			1.8	:1
Power Handling		30		W
阻抗 Impedance		50		Ohms

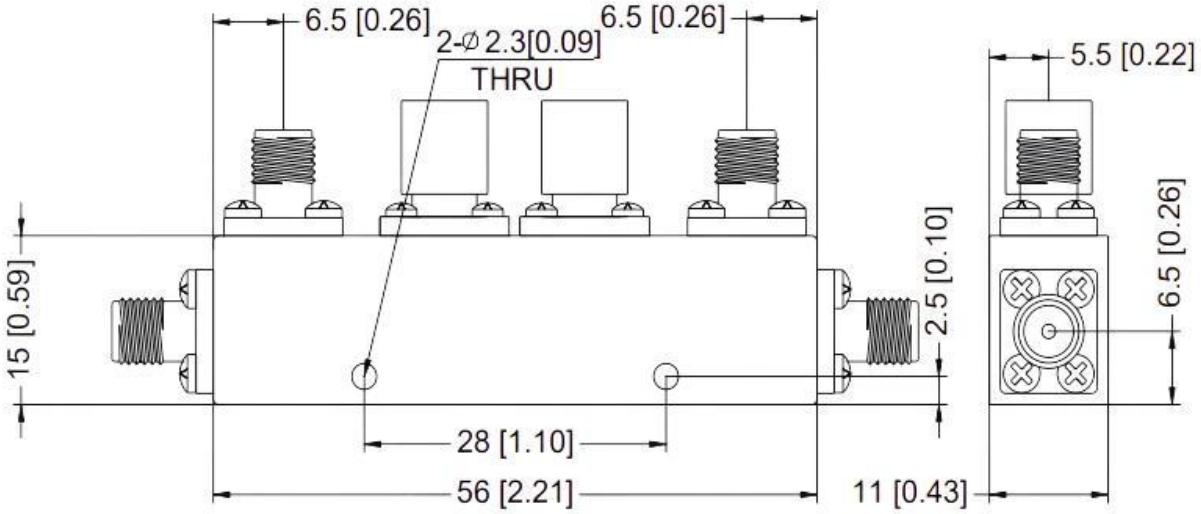
Mechanical Specifications:

Parameter	Value	Units
Operating Temperature	-45 to +85	℃
RF Connector	2.4mm Female	
Coupling Connector	2.4mm Female	
Size	56*15*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
TDC-180500-20-2.4	High Power Dual-Directional Coupler 18-50GHz, Coulping:20dB, 2.4mm Female	Rev.1.0