泰莱微波
Talent Microwave

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High Power Dual-Directional Coupler

1-18GHz/20dB Coupling/SMA Female Model: TDC-10180-20S-100W

TDC-10180-20S-100W is a high power dual-directional coupler that delivers a 20 dB nominal coupling level and 7 dB minimum directivity across the full frequency range from 1 to 18GHz. 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: 1-18GHz
- Max Power: 100W
- 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	1		18	GHz
Insertion Loss(Excl coupling)		1.2	1.5	dB
Coupling		20±1.6		dB
Directivity	7	8		dB
Main Line VSWR			1.5	:1
Power Handling			100	W
Impedance		50		Ohms

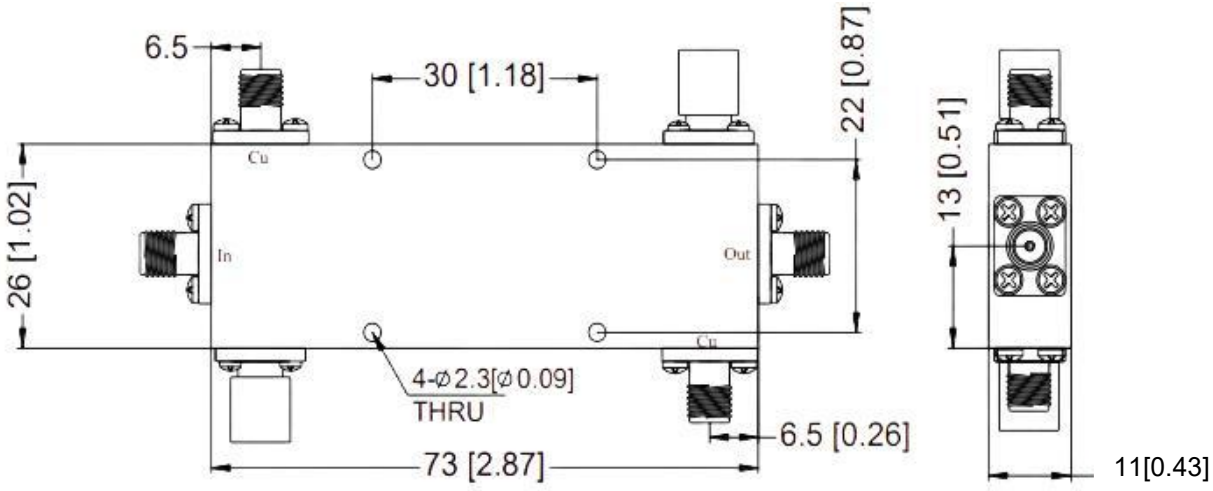
Mechanical Specifications:

Parameter	Value	Units
Operating Temperature	-45 to +85	℃
RF Connector	SMA Female	
Coupling Connector	SMA Female	
Size	73*26*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-10180-20S-100W	High Power Dual-Directional Coupler 1-18GHz, Coulping:20dB, SMA Female	Rev.1.0