泰莱微波 Talent Microwave

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Coax Dual-Directional Coupler

100-2000MHz/17dB Coupling/SMA Female

Model: TDC-0120-17S

TDC-0120-17S is a coax dual-directional coupler that delivers a 17 dB nominal coupling level and 7 dB minimum directivity across the full frequency range from 100 to 2000MHz. 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: 100-2000MHz
- Max Power: 1W
- Stackable mechanical design
- Low Insertion Loss
- Moderate Directivity
- 50 Ohm Matched Input / Output

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
工作频率 Frequency Range	100		2000	MHz
插入损耗 Insertion Loss(Excl coupling)			3.5	dB
耦合度 Coupling		17±2		dB
方向性 Directivity	7	12		dB
主线驻波 Main Line VSWR			1.5	:1
耦合口驻波 Coupling Port VSWR			2.1	:1
耐功率 Power Handling			1	W
阻抗 Impedance		50		Ohms

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
操作温度 Operating Temperature	-40 to +80	℃
RF接口 RF Connector	SMA Female	
尺寸 Size	50*25*12	mm

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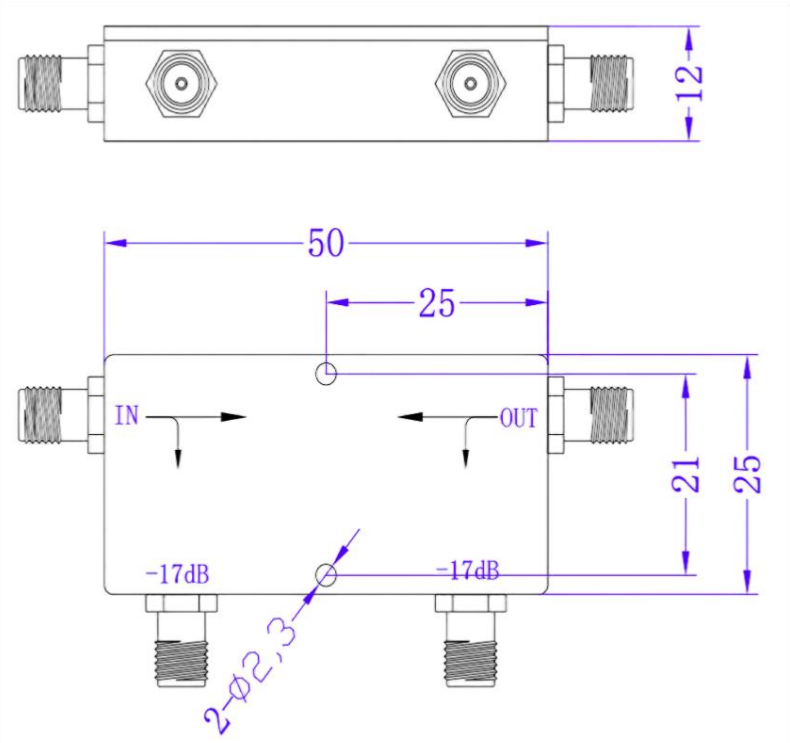
外形图 Outline Drawing:

Unit:mm



This dual-direction coupler is capable of transmitting only RF and microwave signals; it cannot handle direct current, as direct current would cause a short circuit to ground.

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

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TDC-0120-17S	Coax Dual-Directional Coupler 100-2000MHz, Coulping:17dB, SMA Female	Rev.1.0