泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

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

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
工作频率 Frequency Range	0.5		18	GHz
插入损耗 Insertion Loss (不含耦合插损 Excl Coupling)		1.0	1.8	dB
耦合度 Coupling		30±1		dB
方向性 Directivity	10	12		dB
耐功率 Power Handling			50	W
驻波 VSWR			1.7	:1
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	-55-+85	℃
输入/输出接口 Input/Output Connector	SMA Female/SMA Female	
尺寸 Size	115*15.5*11	mm

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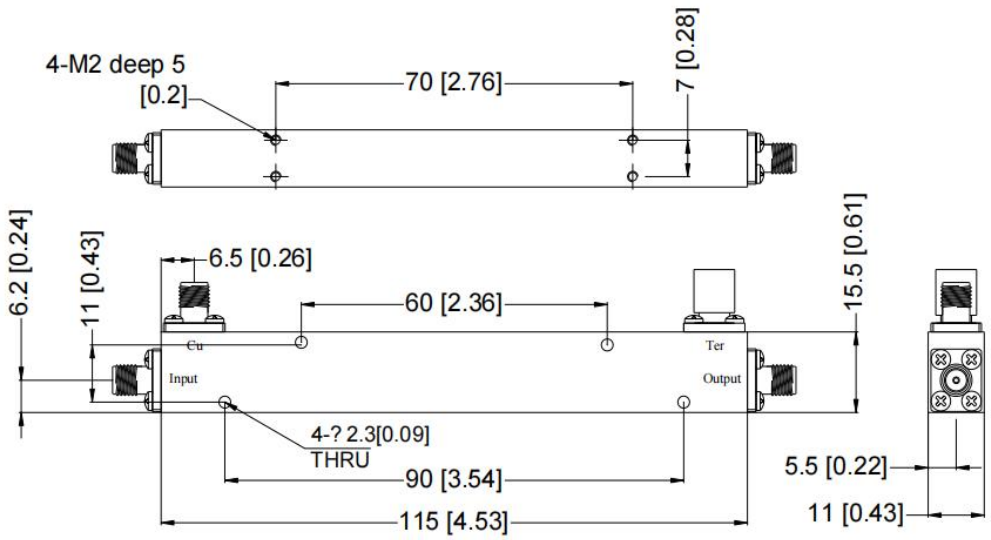
外形图 Outline Drawing: Unit:mm



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
TC-05180-30S-50W	Coaxial Directional Coupler 0.5-18GHz, Coulping:30dB, SMA Female	Rev.1.0