

**Model:TC-20180-10S-Cryo**
**Cryogenic Coax Directional Coupler  
 2-18GHz,10db,SMA**
**Feature:**

- Frequency: 2 to 18 GHz
- Max Power: 2W
- Capable of operation at 10 mK
- Stackable mechanical design
- Machined OFHC block
- 50 Ohm Matched Input / Output

**电气特性 Electrical:**

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	2-18			GHz
耦合 Coupling		10±1.0		dB
插入损耗 Insertion Loss			1.0	dB
方向性 Directivity	12			dB
输入功率 Input Power			2	W
驻波 VSWR			1.6	:1
耐功率 Power Handling			2	W
阻抗 Impedance	50			Ohms

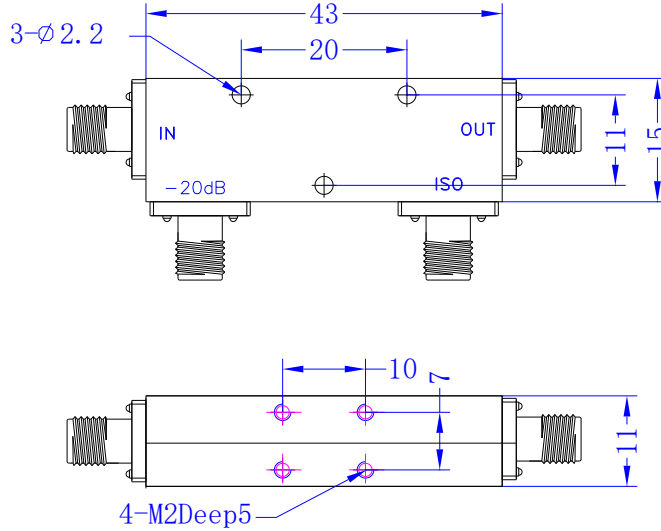
备注：隔离端口标配泰莱微波标准低温负载：[TT2-18-SM-Cryo](#)

**机械特性 Mechanical :**

参数Parameter	指标 Value	单位Units
射频接口 RF Connector	SMA Female	
外壳材质 Case Material	OFHC Copper	
表面 Finish	Gold Plated	
尺寸 Size	45x15x12	mm

**外形尺寸 Outline Drawing:**

Unit: mm



**温度环境 Environmental Conditions:**

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	10mK		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity	100% RH at 35c, 95%RH at 40°C			%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**订货信息 Ordering Information:**

标准型号 Part Number	描述 Description	版本号Revision
TC-20180-10S-Cryo	Cryogenic Coax Directional Coupler 2-18GHz,10db,SMA	Rev.1.1