泰莱微波
Talent Microwave

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High Power Directional Coupler

2-18GHz/30dB Coupling/N-K/SMA-K Model: TC-20180-30N-250W

TC-2180-30N-250W is a high power directional coupler that delivers a 30 dB nominal coupling level and 12 dB minimum directivity across the full frequency range from 2 to 18GHz. It is a 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: 2-18GHz
- Max Power:250W(CW)
- 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	2		18	GHz
插入损耗 Insertion Loss(Excl coupling)			0.8	dB
耦合度 Coupling		30±1.5		dB
方向性 Directivity	12			dB
驻波 VSWR			1.5	:1
耐功率 Power Handling		250(CW)		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	-55-+85	℃
RF接口 RF Connector	N Femlae	
负载和耦合端口 Terminations and Coupling Port	SMA Female	
表面 Finish	Conductive oxidation	
尺寸 Size	80*35*22	mm

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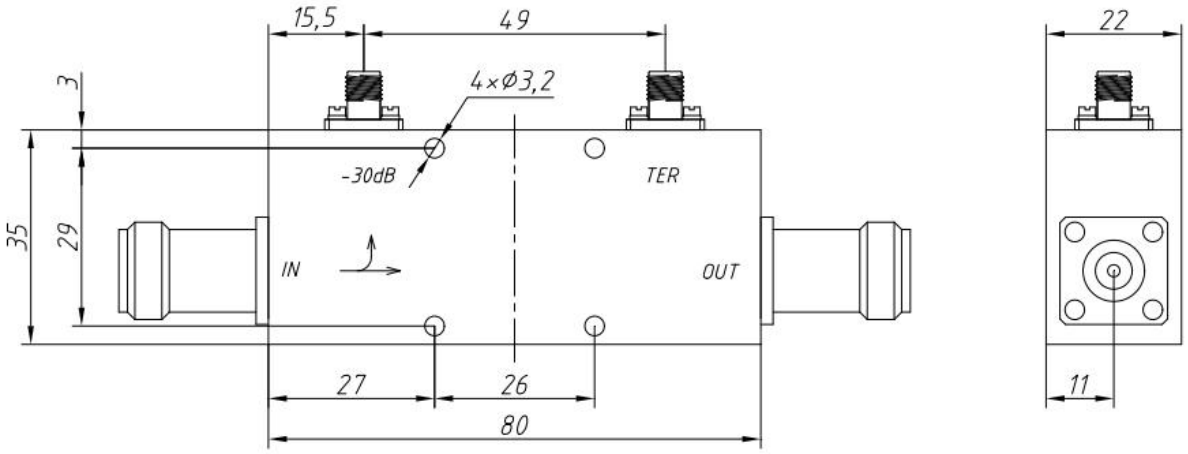
外形图 Outline Drawing:

Unit:mm; Tolerance:±0.2mm



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-2180-30N-250W	High Power Directional Coupler 2-18 GHz, Coulping:30dB, N-K/ SMA-K	Rev.1.0