

**Model: TG-90K50G-16-2**
**HIGH DIRECTIVITY BRIDGE COUPLER  
 90KHz-50 GHz, 16dB Coupling**
**Feature:**

- Ultra Wide Band: 90KHz-50 GHz
- High Directivity
- Low VSWR
- 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		90KHz-50			GHz
耦合度 Coupling			16.5±2.3		dB
插损 Insertion Loss				4.2	dB
方向性 Directivity		13			dB
回波损耗 Return Loss	输入端 Input			-12	dB
	输出端 Output			-12	dB
	耦合端 Coupled			-10	dB
耐功率 Power				1	W
阻抗 Impedance		50			Ohms

**机械特性 Mechanical :**

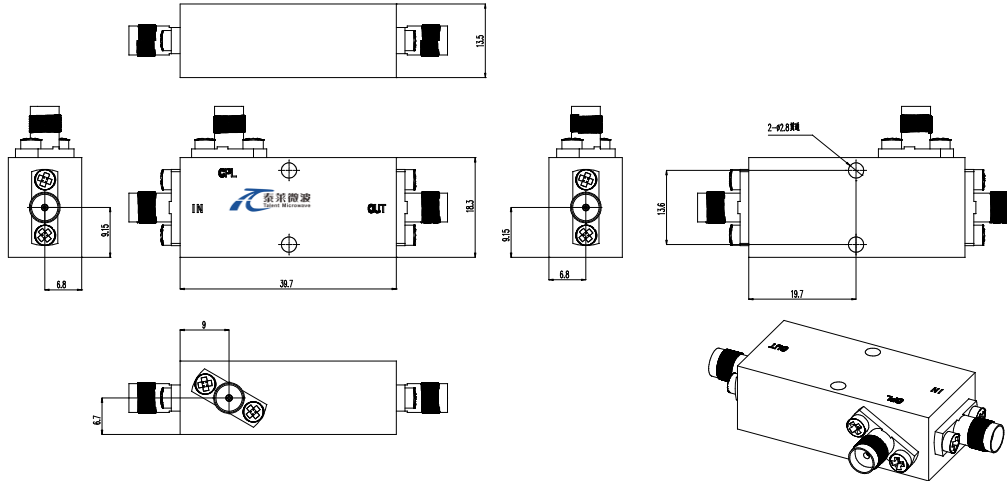
参数Parameter	指标 Value
输入接口 Input Connector	2.4mm Female
输出接口 Output Connector	2.4mm Female
耦合接口 Coupled Connector	2.4mm Female
材料 Material	Cu
尺寸 Size	39.7×18.3×13.5 mm

**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
输入功率 RF Input Power	1W
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10000		30000	feet
震动 Shock / Vibration(MIL-STD-810F)		Airborne		
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
TG-90K50G-16-2	HIGH DIRECTIVITY BRIDGE COUPLER 90KHz-50 GHz, 16dB Coupling,2.4mm Female	Rev.1.1