

## TURLA10M50G-5065

TURLA10M50G-5065 is a low noise amplifier with a typical small signal gain of 50 dB and a nominal noise figure of 5 dB across the frequency range of 0.01 to 50 GHz. The DC power requirement for the amplifier is +12 V DC/500 mA. The input and output port configuration offers coax adapter structure with 2.4mm female.

### Features:

- Frequency range: 0.01-50GHz
- Gain: 50dB Typ
- Noise Figure: 5dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

### Applications:

- Communication systems

### 电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	0.01		50	GHz
小信号增益 Small Signal Gain	46	50		dB
增益平坦度 Gain Flatness		±3		dB
噪声系数 Noise Figure		5	6.5	dB
线性输出功率 Output P1dB	13			dBm
输入驻波 Input VSWR		2		:1
输出驻波 Output VSWR		2		:1
直流电压 DC Voltage	+8	+12		V DC
直流电流 DC Supply Current		500		mA
阻抗 Impedance		50		Ohms

Parameters degrade below 100MHz and above 40GHz.

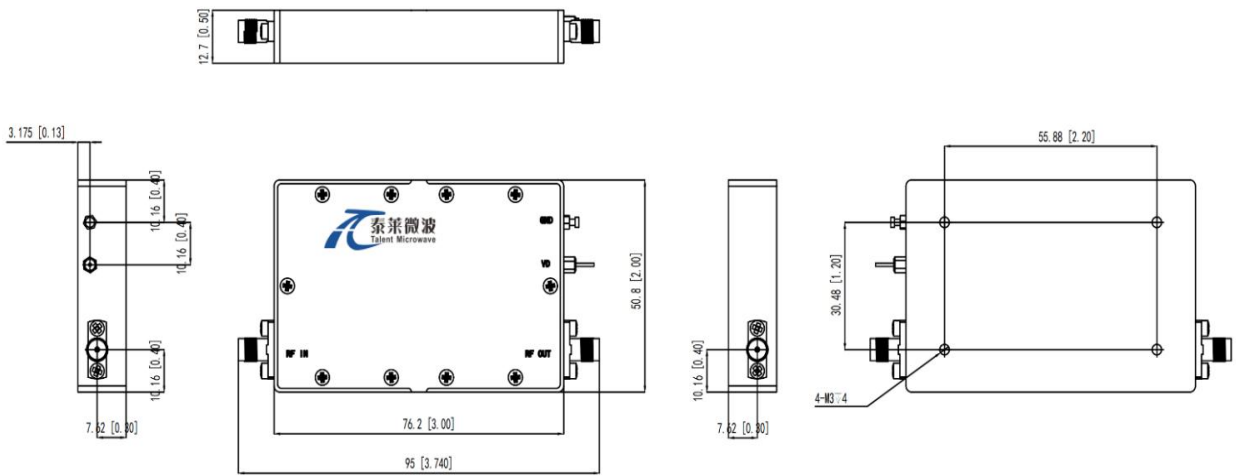
### 机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.4mm Female/2.4mm Female	


## 绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+13V
输入功率 RF Input Power	0 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

## 外形图 Outline Drawing: Unit:mm



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

## 温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude		50,000		feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			

## 订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TURLA10M50G-5065	Low Noise Amplifier, 0.01-50GHz, Noise Figure:5.0dB, Gain:50 dB,P1dB:13dBm,+12V DC,Without Heatsink	Rev.1.1
TURLA10M50G-5065 HS	Low Noise Amplifier, 0.01-50GHz, Noise Figure:5.0dB, Gain:50 dB,P1dB:13dBm,+12V DC,With Heatsink	Rev.1.1