泰莱微波
Talent Microwave

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

Power Amplifier

40-67GHz /51dB Gain/24 dBm Psat Model: TLPA40G67G-51-24

TLPA40G67G-51-24 is a power amplifier with a typical small signal gain of 51 dB and a nominal Psat of 24 dBm across the frequency range of 40 to 67 GHz. The DC power requirement for the amplifier is +18 VDC/0.5 A. The input and output port configuration offers coax adapter structure with 1.85mm female.

Features:

- Ultra Wide Band: 40-67GHz
- Gain: 51dB Typ
- Output Power Psat: 24dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range		40-67		GHz
小信号增益 Small Signal Gain		51		dB
增益平坦度 Gain Flatness		±5		dB
饱和输出功率 Output Psat		24		dBm
输入驻波 Input VSWR		2		:1
输出驻波 Output VSWR		2		:1
直流电压 DC Voltage		18		V DC
直流电流 DC Supply Current		0.5		A
阻抗 Impedance		50		Ohms

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机械特性 Mechanical Specifications:

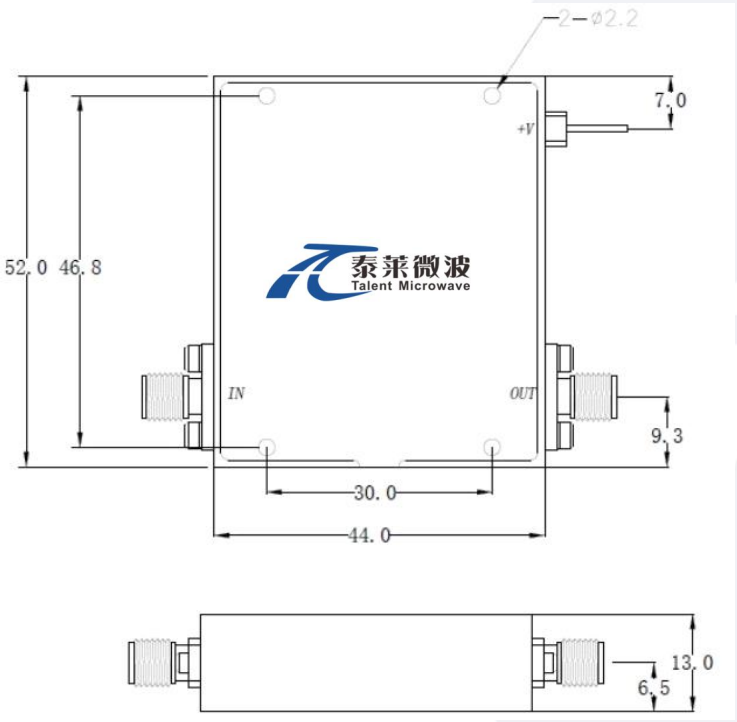
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	1.85mm Female/1.85mm Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	52*44*13(Without Heatsink) 111*50*63(With Heatsink)	mm
重量 Weight	/	g

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+18 V
输入功率 RF Input Power	-10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm



***Heat Sink Required During Operation

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

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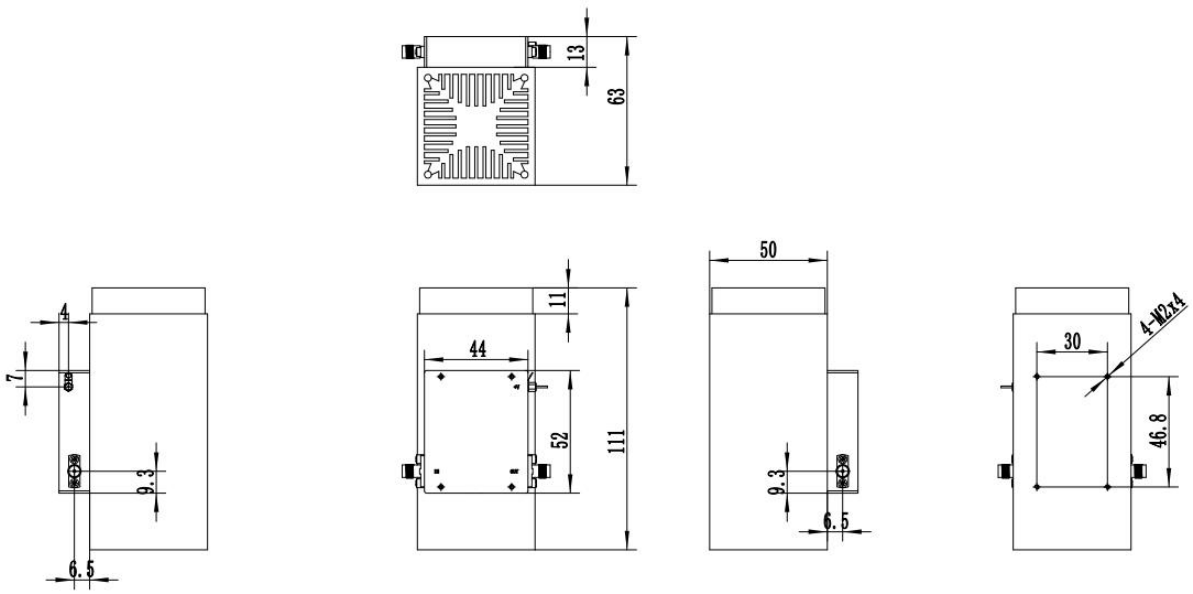

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-40		+60	℃
存储温度 Non-operating Temperature*	-50		+70	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			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			

*Note: For a wider temperature range, please consult the manufacturer.

订货信息 Ordering Information:

标准型号 Base Number	描述 Desciption	版本号 Revision
TLPA40G67G-51-24	Power amplifier 40-67GHz,Gain:51dB,Psat:24dBm, +18V DC,Without Heatsink	Rev.1.1
TLPA40G67G-51-24-HS	Power amplifier 40-67GHz,Gain:51dB,Psat:24dBm, +18V DC,With Heatsink	Rev.1.1

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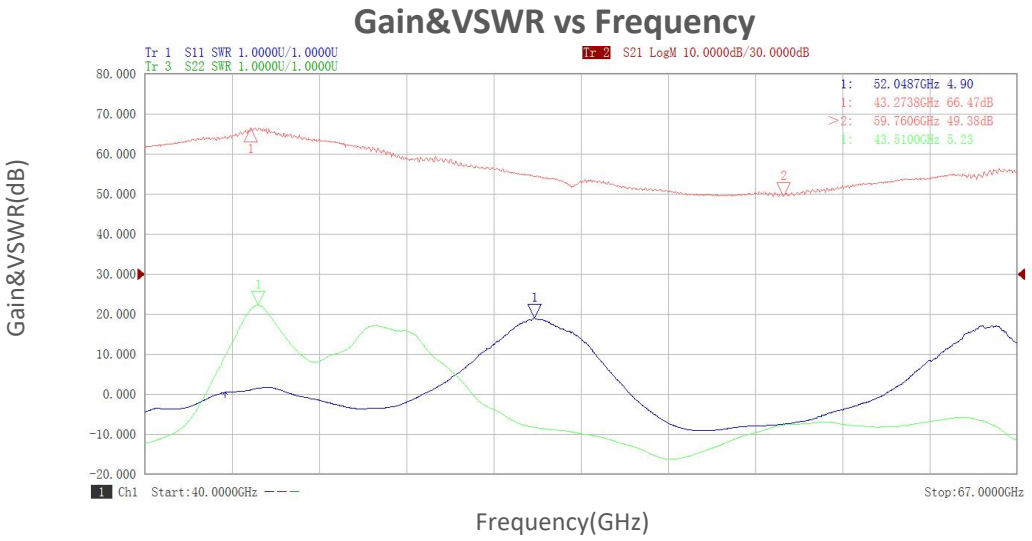
典型曲线 Typical Performance Data:



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.