

Model:TLPA10M40G-28-20
Power Amplifier
0.01-40GHz,Gain:28dB,P1dB:18dBm,Psat:20dBm
Feature:

- Ultra Wide Band: 0.01G-40GHz
- Gain: 28dB Typ
- Psat Output Power: 20 dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical Specifications:

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	0.01-40			GHz
增益 Gain		28		dB
增益平坦度 Gain Flatness		±2		dB
线性输出功率 Output P1dB		18		dBm
饱和输出功率 Output Psat		20		dBm
杂散 Spurious		-60		dBc
噪声系数 Noise Figure		6		dB
输入驻波 Input VSWR		2		:1
输出驻波 Output VSWR		2		:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		400		mA
阻抗 Impedance		50		Ohms

机械特性 Mechanical Specifications:

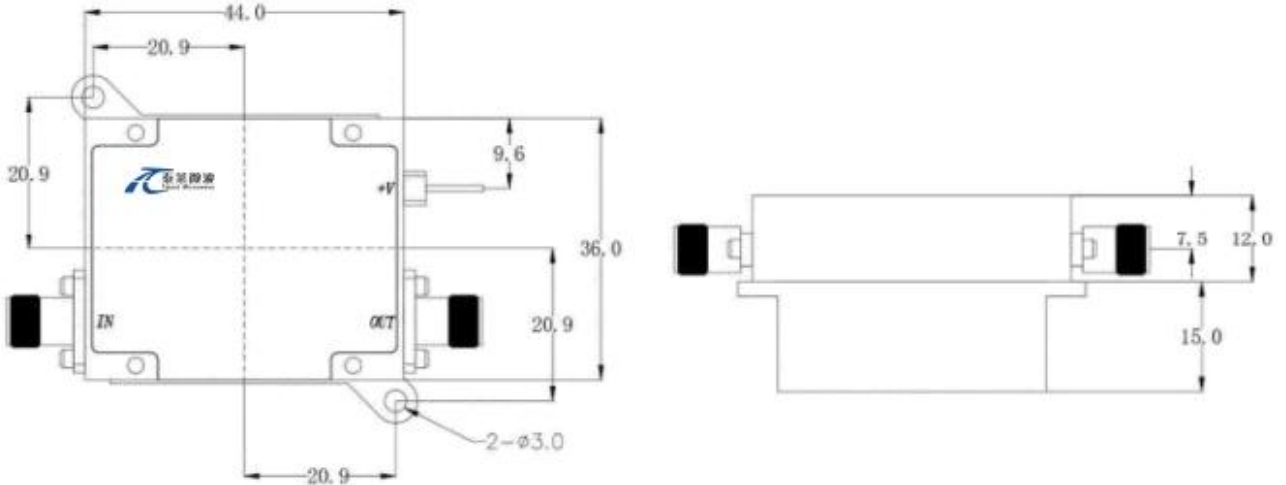
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	2.92 Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	44*36*12	mm
重量 Weight	/	g


**Available 220V System
Benchtop Amplifier**
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+12V
输入功率 RF Input Power	10dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



*****Heat Sink Required During Operation**



温度环境 Environmental Conditions:

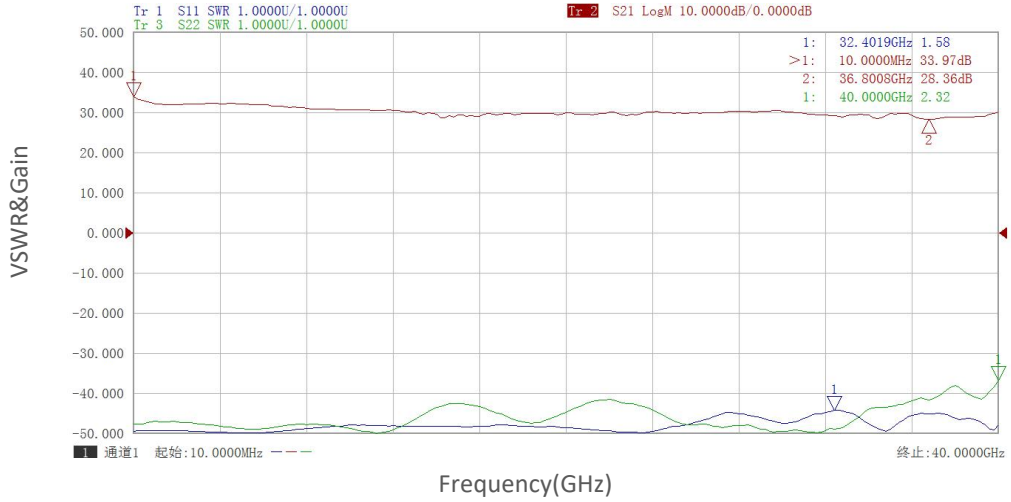
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

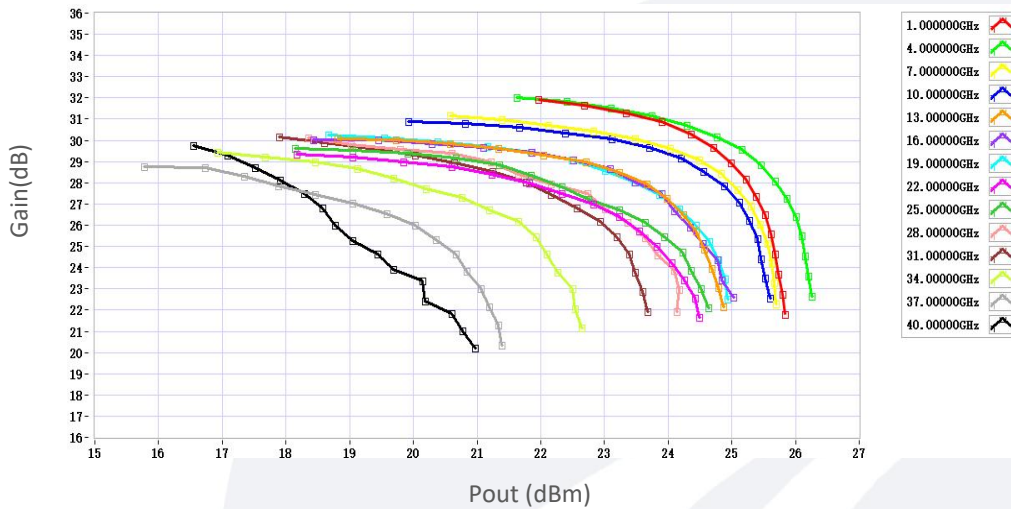
标准型号 Part Number	描述 Description	版本号Revision
TLPA10M40G-30-22	Power amplifier 10MHz-40 GHz,Gain:30dB,P1dB:20dBm,12V DC,Without Heatsink.	Rev.1.1
TLPA10M40G-30-22-HS	Power amplifier 10MHz-40 GHz,Gain:30dB,P1dB:20dBm,12V DC,With Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

VSWR&Gain vs Frequency



Gain vs Output Power

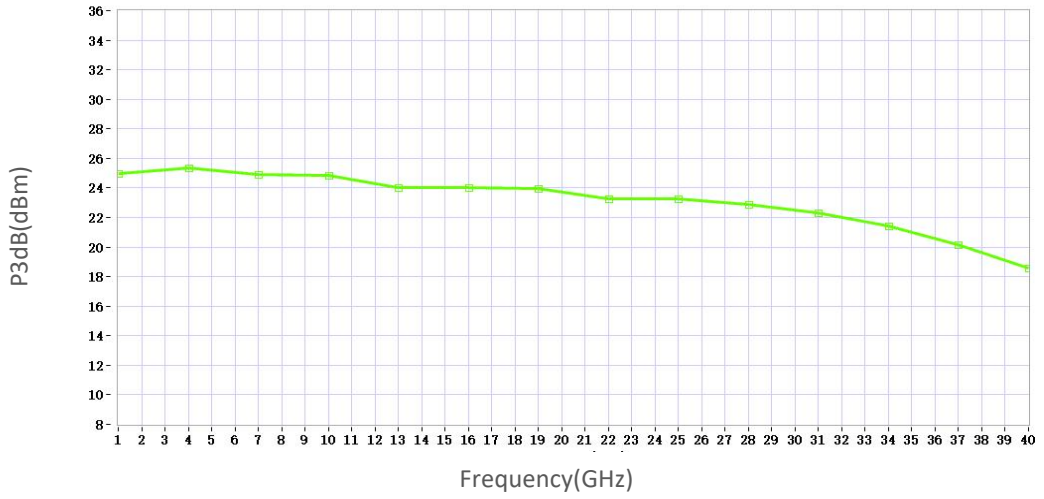


P1dB vs Frequency



典型曲线 Typical Performance Data:

P3dB vs Frequency



Psat vs Frequency

