

Model:TLPA100M2G-20-30
Power Amplifier
100MHz-2.0GHz, Gain:20dB, P1dB:27dBm
Feature:

- Ultra Wide Band: 100MHz-2.0GHz
- Gain: 20dB Min
- P1dB Output Power: 27 dBm Min
- Good Power and Gain Flatness
- 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	0.1-2.0			GHz
增益 Gain	20	22		dB
增益平坦度 Gain Flatness		±0.5	±0.75	dB
线性输出功率P1dB	27	28		dBm
谐波抑制@Pout=27dBm		20		dBc
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage		12	13	V DC
直流电流 DC Supply Current		0.7	1	A
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

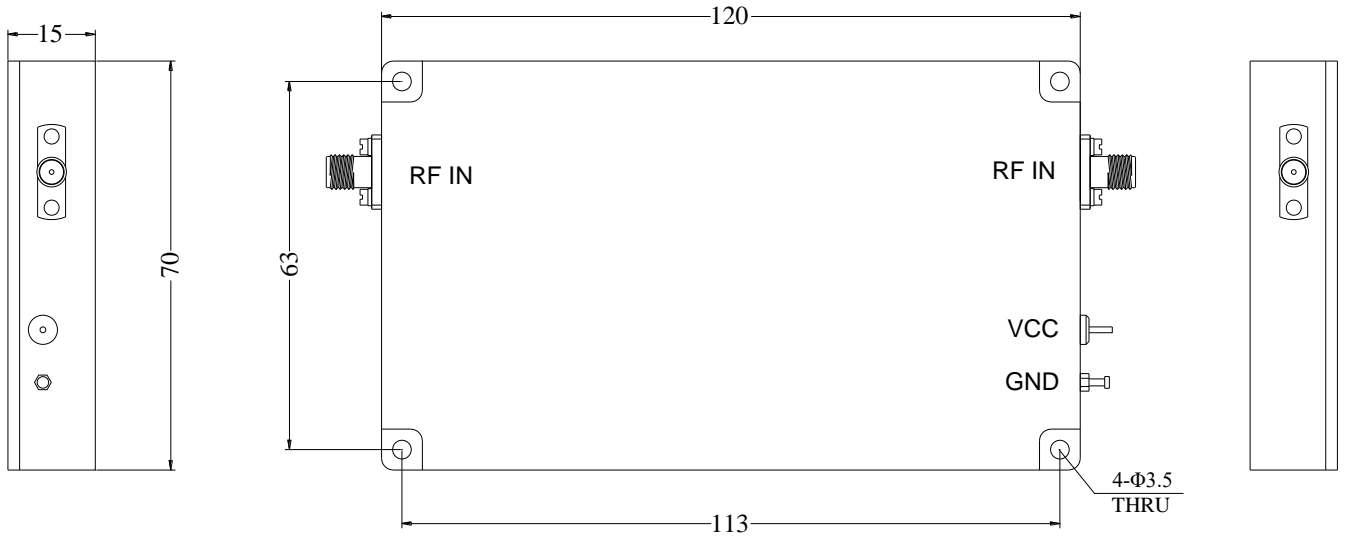
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	120X70X15	mm
重量 Weight	200	g


绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	16
输入功率 RF INPUT POWER	+16dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



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



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	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			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
TLPA100M2G-20-30	Power amplifier 100MHz-2.0GHz, Gain:20dB, P1dB:27dBm, 12V DC, Without Heatsink	Rev.1.0
TLPA100M2G-20-30-HS	Power amplifier 100MHz-2.0GHz, Gain:20dB, P1dB:27dBm, 12V DC, With Heatsink	Rev.1.0