

Model:TLPA0.1G18G-30-27
Power Amplifier
0.1-18GHz,Gain:30dB,P1dB:27dBm
Feature:

- Ultra Wide Band: 0.1-18GHz
- Gain:30dB Min
- Psat Output Power: 29dBm 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	0.1-18			GHz
增益 Gain	30	35		dB
增益平坦度 Gain Flatness		±1.5		dB
增益随温度变化 Gain Variation Over Temperature		±1		dB
线性输出功率 Output P1dB	27			dBm
饱和输出功率 Output Psat		29		dBm
噪声系数 Noise Figure		5		dB
杂散 Spurious		-60		dBc
输入驻波 Input VSWR			2.2	:1
输出驻波 Output VSWR			2.2	:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		800	900	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	SMA Female/SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	50*30*12	mm
重量 Weight	50	g

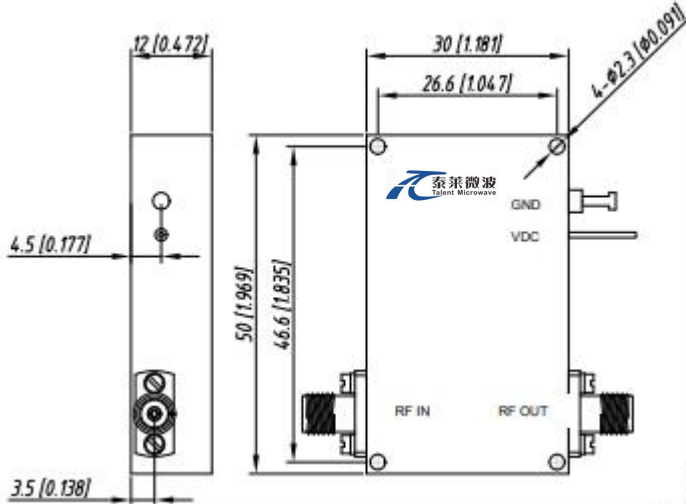
绝对最大值 Absolute Maximum Ratings:

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


 Available 220V System
 Benchtop Amplifier

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
TLPA0.1G18G-30-27	Power amplifier 0.1-18GHz, Gain:30dB, P1dB:27dBm, +12V DC, Without Heatsink.	Rev.1.1
TLPA0.1G18G-30-27-HS	Power amplifier 0.1-18GHz, Gain:30dB, P1dB:27dBm, +12V DC, With Heatsink.	Rev.1.1