

Power Amplifier

6-18GHz /33dB Gain/36 dBm Psat

Model: TLPA6G18G-37-37

TLPA6G18G-37-37 is a power amplifier with small signal gain of 33 dB and Psat of 36 dBm across the frequency range of 6 to 18 GHz. The DC power requirement for the amplifier is +28 VDC/1.1 A. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Ultra Wide Band: 6-18GHz
- Gain: 33dB Min
- Output Power Psat: 36dBm Min
- 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	6-18			GHz
增益 Gain	33			dB
饱和输出功率 Output Psat	36			dBm
杂散 Spurious			-50	dBc
谐波抑制 Harmonic			-10	dBc
直流电压 DC Voltage		28		V DC
直流电流 DC Supply Current		1.1		A
阻抗 Impedance	50			Ohms

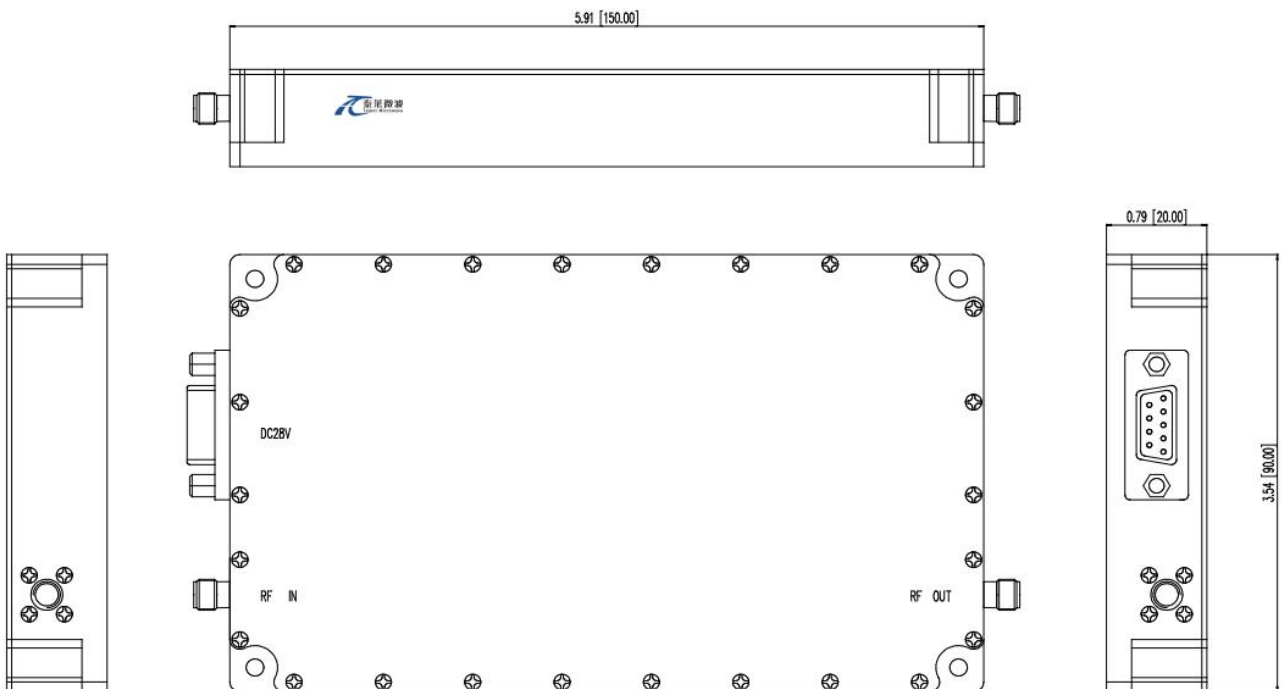
机械特性 Mechanical Specifications:

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	J30J-9ZKP	1-4:+28V 5-9:GND
尺寸 Size	59.1*35.4*7.9	mm
重量 Weight	500	g

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
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

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-40		+60	°C
存储温度 Non-operating Temperature*	-50		+70	°C
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 Description	版本号 Revision
TLPA6G18G-37-37	Power amplifier 6-18GHz,Gain:33dB,Psat:36dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA6G18G-37-37-HS	Power amplifier 6-18GHz,Gain:33dB,Psat:36dBm, +28V DC,With Heatsink	Rev.1.1