

Power Amplifier

18-40GHz /33dB Gain/24 dBm Psat

Model: TLPA18G40G-33-24-LC

TLPA18G40G-33-24-LC is a power amplifier with a typical small signal gain of 33 dB and Psat of 24 dBm across the frequency range of 18 to 40 GHz. The DC power requirement for the amplifier is +12 VDC/307 mA. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Ultra Wide Band: 18-40GHz
- Small Signal Gain:33 dB Typ
- Output Power Psat: 24 dBm 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	18-40			GHz
小信号增益 Small Signal Gain		33		dB
增益平坦度 Gain Flatness		±1.5		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		+12	+15	V DC
直流电流 DC Supply Current		307		mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

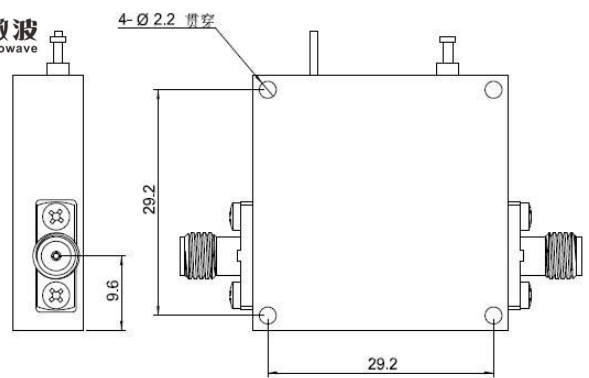
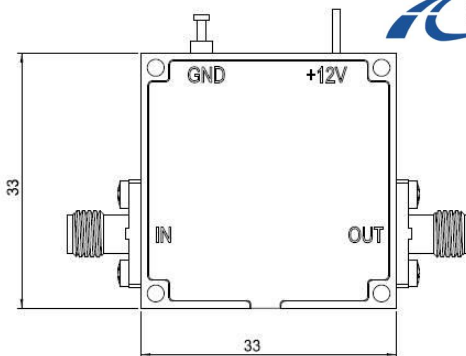
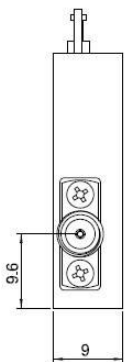
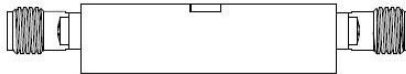
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mm Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	33×33×9	mm
重量 Weight	/	g

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 V
输入功率 RF Input Power	+15 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 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*	-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
TLPA18G40G-33-24-LC	Power amplifier 18-40GHz,Power Gain:33dB,Psat:24dBm, +12V DC,With Heatsink	Rev.1.1