

Power Amplifier

18-40GHz/30dB Gain/32dBm Psat

Model: TLPA18G40G-30-32-HS

TLPA18G40G-30-32-HS is a power amplifier with a minimum gain of 30 dB and a minimum Psat of 32 dBm across the frequency range of 18 to 40 GHz. The DC power requirement for the amplifier is +24 VDC/2 A. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 18-40GHz
- Gain: 30dB Min
- Output Power Psat: 32dBm 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	18		40	GHz
增益 Gain	30	33		dB
增益平坦度 Gain Flatness		±3		dB
线性输出功率 Output P1dB	30	31		dBm
饱和输出功率 OutputPsat	32	33		dBm
输入驻波 Input VSWR		2	2.2	:1
输出驻波 Output VSWR		2	2.2	:1
直流电压 DC Voltage		+24		V DC
直流电流 DC Supply Current		2		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	2.92mm Female/2.92mm Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	130*170*52(With heatsink)	mm

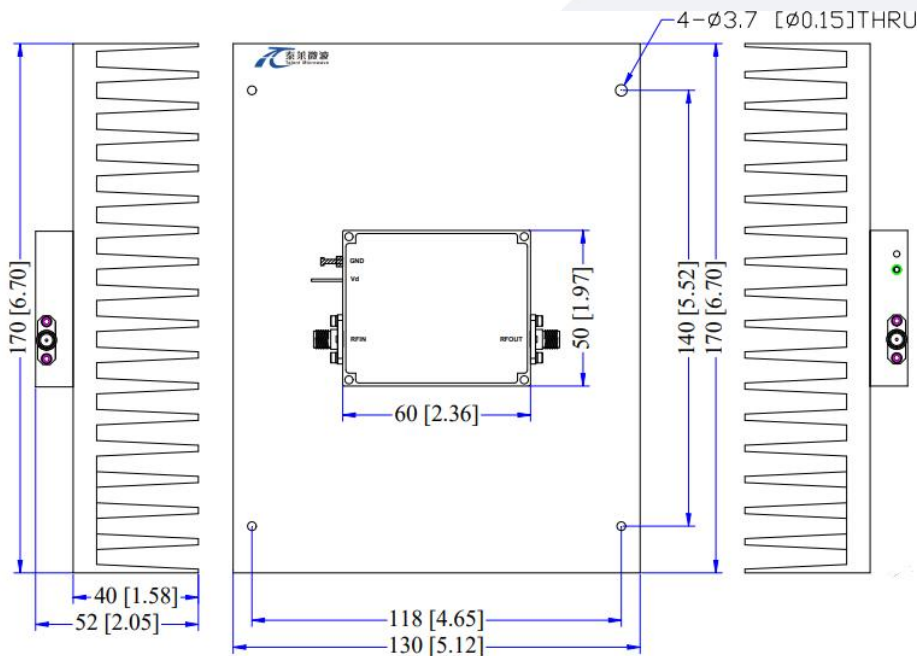
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	+5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



外形图 Outline Drawing:

Unit:mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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-30-32-HS	Power amplifier 18-40GHz, Gain:30dB,Psat:32dBm,+24V DC,With Heatsink	Rev.1.1