

Power Amplifier

2-6GHz /52dB Gain/50dBm Psat

Model: TLPA2G6G-52-50

TLPA2G6G-52-50 is a power amplifier with a typical small signal gain of 52 dB and Psat of 50 dBm across the frequency range of 2 to 6 GHz. The DC power requirement for the amplifier is +28 VDC/3 A. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 2-6GHz
- Gain: 52dB Typ
- Output Power Psat: 50dBm 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	2-6			GHz
小信号增益 Small Signal Gain	50	52		dB
增益平坦度 Gain Flatness		±3	±5	dB
线性输出功率 Output P1dB	47			dBm
饱和输出功率 Output Psat	50			dBm
谐波 Harmonics		-12		dBc
输入驻波 Input VSWR		1.5	2	:1
直流电压 DC Voltage		+28		V DC
直流电流 DC Supply Current		3	22	A
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

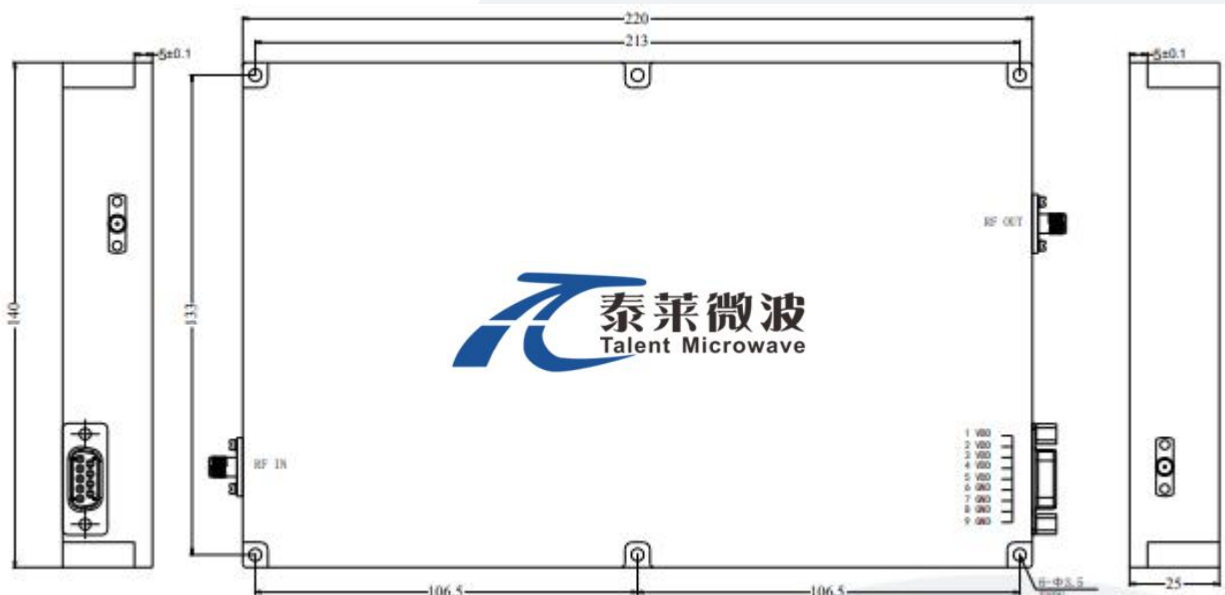
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
直流偏置 DC Bias	DSUB-9	Pin1~5:+28V Pin6~9:GND
尺寸 Size	220*140*25	mm
重量 Weight	250	g

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+28 V
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



*****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*	-20		+50	°C
存储温度 Non-operating Temperature*	-30		+60	°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
TLPA2G6G-52-50	Power amplifier 2-6GHz,Gain:52dB,Psat:50dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA2G6G-52-50-HS	Power amplifier 2-6GHz,Gain:52dB,Psat:50dBm, +28V DC,With Heatsink	Rev.1.1