

Power Amplifier

5.25-5.37GHz/45dB Gain/43dBm Psat

Model: TLPA5.25G5.37G-45-43

TLPA5.25G5.37G-45-43 is a power amplifier with a typical gain of 45 dB and a typical Psat of 43 dBm across the frequency range of 5.25 to 5.37 GHz. The DC power requirement for the amplifier is +28 VDC/4 A. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 5.25-5.37GHz
- Gain: 45dB Typ
- Output Power Psat: 43dBm 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	5.25		5.37	GHz
增益 Gain	40	45		dB
增益平坦度 Gain Flatness		±0.2	±0.25	dB
线性输出功率 Outout P1dB	42.3	42.7		dBm
饱和输出功率 Output Psat		43		dBm
杂散 Supurious			-70	dBc
谐波 Harmonic			-50	dBc
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage		+28		V DC
直流电流 DC Supply Current		4		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	Solder Pin	
尺寸 Size	94*170*20(Without Heatsink)	mm

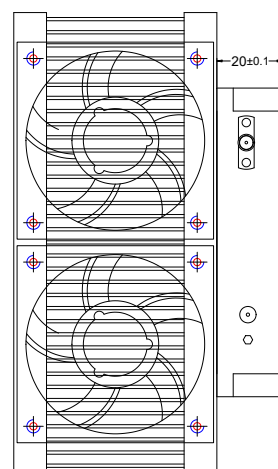
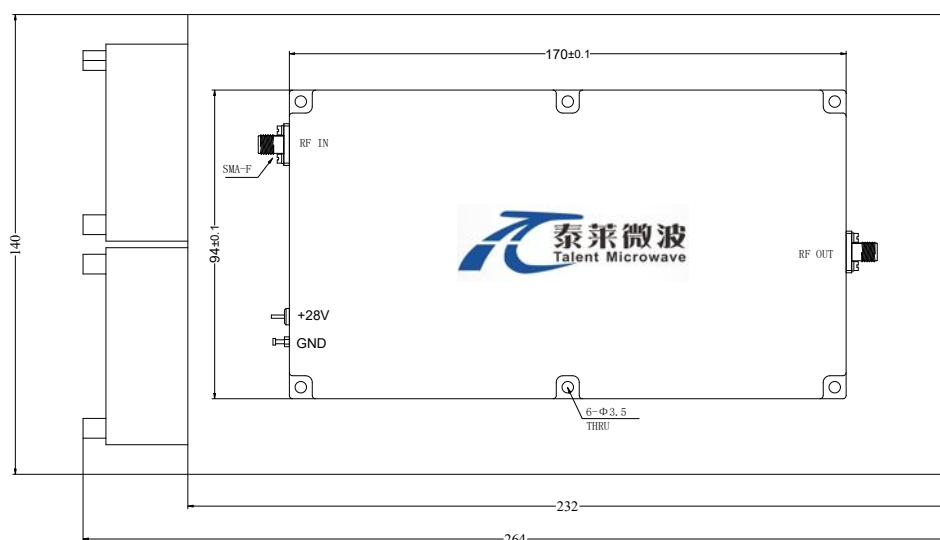
绝对最大值 Absolute Maximum Ratings:

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; Tolerance:±0.1mm



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	℃
存储温度 Non-operating Temperature*	-50		+70	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
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
TLPA5.25G5.37G-45-43	Power amplifier, 5.25-5.37GHz, Gain:45dB,Psat:43dBm,+28V DC,Without Heatsink	Rev.1.1
TLPA5.25G5.37G-45-43-HS	Power amplifier, 5.25-5.37GHz, Gain:45dB,Psat:43dBm,+28V DC,With Heatsink	Rev.1.1