泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Power Amplifier

18-52GHz/33dB Gain/28dBm Psat

Model: TLPA18G52G-34-28

TLPA18G52G-34-28 is a power amplifier with a typical small signal gain of 33 dB and a nominal Psat of 28 dBm across the frequency range of 18 to 52 GHz. The DC power requirement for the amplifier is +12 VDC/1.3 A. The input and output port configuration offers coax adapter structure with 2.4mm female.

Features:

- Frequency range: 18-52GHz
- Gain: 33dB Typ
- Output Power Psat: 28dBm 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		52	GHz
小信号增益 Small Signal Gain	30	33		dB
线性输出功率 Output P1dB	25	26		dBm
饱和输出功率 Output Psat	26	28		dBm
回波损耗 Ruturn Loss		-10		dB
直流电压 DC Voltage	10	12	15	V DC
静态电流 Static Current		0.85		A
饱和电流 Saturation current		1.3	1.5	A
阻抗 Impedance		50		Ohms

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机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.4mm Female/2.4mm Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	65*50*14(Without heatsink) 50*100*64(With heatsink)	mm

绝对最大值 Absolute Maximum Ratings:

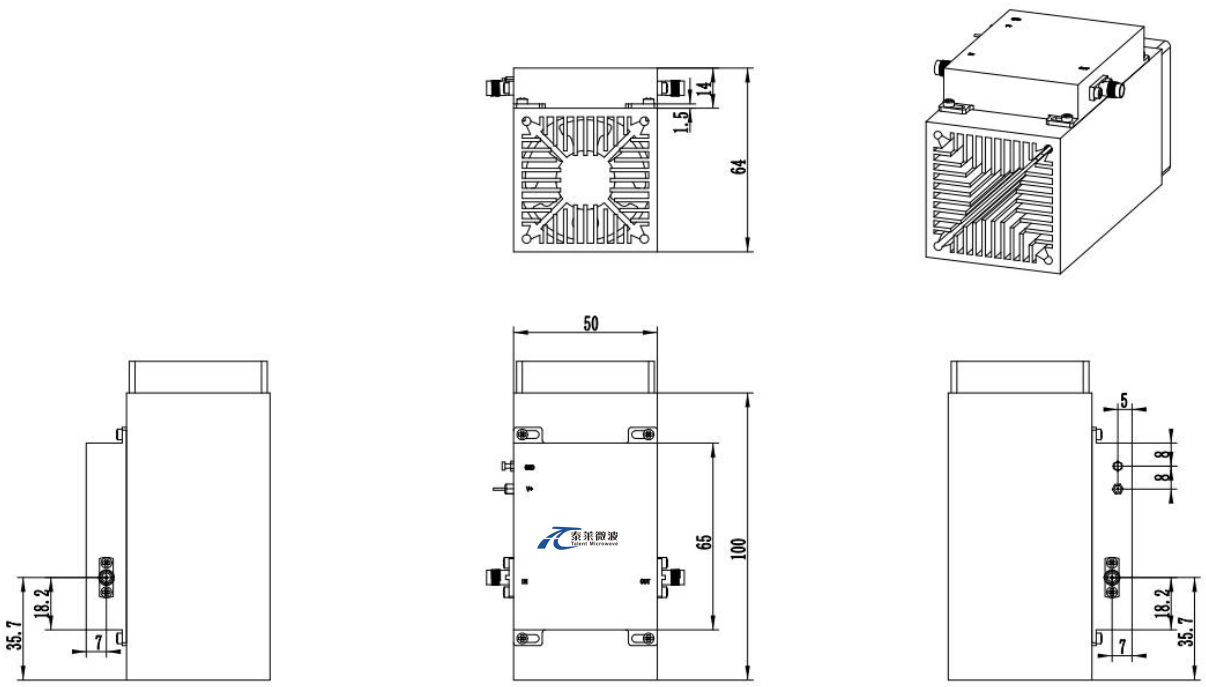
参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 V
输入功率 RF Input Power	+10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



Simple 220V System
Available SAC option

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

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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)	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
TLPA18G52G-34-28	Power amplifier 18-52GHz, Gain:33dB,Psat:28dBm,+12V DC,Without Heatsink	Rev.1.0
TLPA18G52G-34-28-HS	Power amplifier 18-52GHz, Gain:33dB,Psat:28dBm,+12V DC,With Heatsink	Rev.1.0