

**Model:TLPA13.7G14.5G-52-52-HS-T**
**Power Amplifier**  
**13.7-14.5GHz,Gain:52dB,Psat:52dBm**
**Feature:**

- Ultra Wide Band: 13.7-14.5 GHz
- Gain: 52 dB Min
- Psat Output Power: 52 dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection.
- 50 Ohm Matched Input / Output

**电气特性 Electrical Specifications:**

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	13.7-14.5			GHz
功率增益 Power Gain	52			dB
增益平坦度 Gain Flatness@Full band		±2	±3	dB
增益波动 Gain fluctuation @Full TEMP range		±3		dBm
饱和输出功率 Output Psat	52			dBm
杂散 Spurious@Pout=52dBm			-60	dBc
三阶互调 Output IM3*			-25	dBc
输入驻波 Input VSWR			1.5	:1
输出驻波 Output VSWR			1.5	:1
直流电压 DC Voltage		28		V DC
功耗 Power Consumption			1000	W
阻抗 Impedance	50			Ohms

**\*Note:**

Two-tone interval is 5 MHz,The total power of the two-tone synthesis is 48 dBm.

**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 WR62	
通信接口 Communication Connector	J30J-15ZKP	
直流供电 DC Supply	D-SUB5W5	A1-A2: +28V A3-A5: GND
尺寸 Size	350*239*90	mm
重量 Weight	≤10	Kg

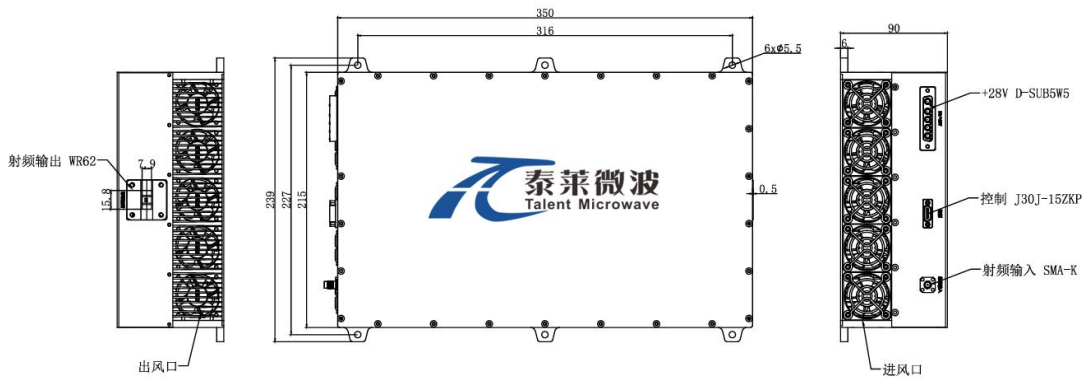
**绝对最大值 Absolute Maximum Ratings:**

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

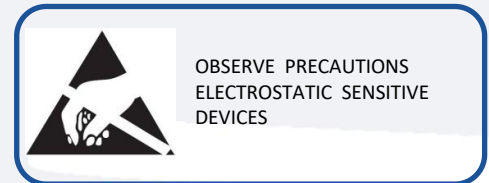


**外形尺寸 Outline Drawing:**

Unit: mm



**主要功能 Key Features:**



参数 Parameter	特点 Advantages
内置保护功能 Protection functions	1,Over TEM 2,Over voltage 3,Over current protection 4,Over VSWR
查询参数 Query parameters	1,TEM 2,Voltage 3,Current 4,Output power and reflect power
监控和控制 Remote control	RS422
冷却系统 Cooling system	Built in Cooling system,forced air cooling

**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)	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 Part Number	描述 Description	版本号 Revision
TLPA13.7G14.5G-52-52-HS-T	Power amplifier 13.7-14.5GHz, Gain:52dB, Psat:52dBm, +28V DC, With Heatsink	Rev.1.1