

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

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	13.7-14.5			GHz
Power Gain	52			dB
Gain Flatness@Full band		±2	±3	dB
Gain fluctuation @Full TEMP range		±3		dBm
Output Psat	52			dBm
Spurious@Pout=52dBm			-60	dBc
Output IM3*			-25	dBc
Input VSWR			1.5	:1
Output VSWR			1.5	:1
DC Voltage		28		V DC
Power Consumption			1000	W
Impedance	50			Ohms

*Note:

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

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female WR62	
Communication Connector	J30J-15ZKP	
DC Supply	D-SUB5W5	A1-A2: +28V A3-A5: GND
Size	350*239*90	mm
Weight	≤10	Kg

Absolute Maximum Ratings:

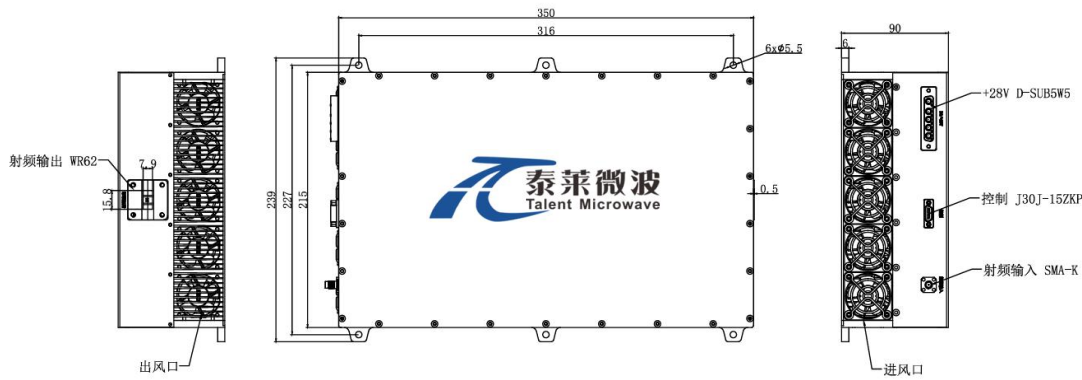
Parameter	Value
Supply Bias Voltage	+28 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



**Available 220V System
Benchtop Amplifier**

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Key Features:

Parameter	Advantages
Protection functions	1, Over TEM 2, Over voltage 3, Over current protection 4, Over VSWR
Query parameters	1, TEM 2, Voltage 3, Current 4, Output power and reflect power
Remote control	RS422
Cooling system	Built in Cooling system, forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+50	°C
Non-operating Temperature*	-30		+60	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

Part Number	Description	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