

Model:TLPA0.6G4.2G-46-44-HS

Power Amplifier 0.6-4.2GHz,Gain:46dB,Psat:44dBm

Feature:

- Ultra Wide Band: 0.6-4.2 GHz
- Gain: 46 dB Typ
- Psat Output Power: 44 dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.6-4.2			GHz
Small Signal Gain	41	46		dB
Gain Flatness		±2		dB
Output P1dB	38	41		dBm
Output Psat	42	44		dBm
Noise Figure		10		dB
Input VSWR		1.5	2.0	:1
DC Voltage	26	28	30	V DC
DC Supply Current	3.5			A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	170*110*25(Without Heatsink) 264*140*87(With Heatsink)	mm
Weight	150	g

Absolute Maximum Ratings:

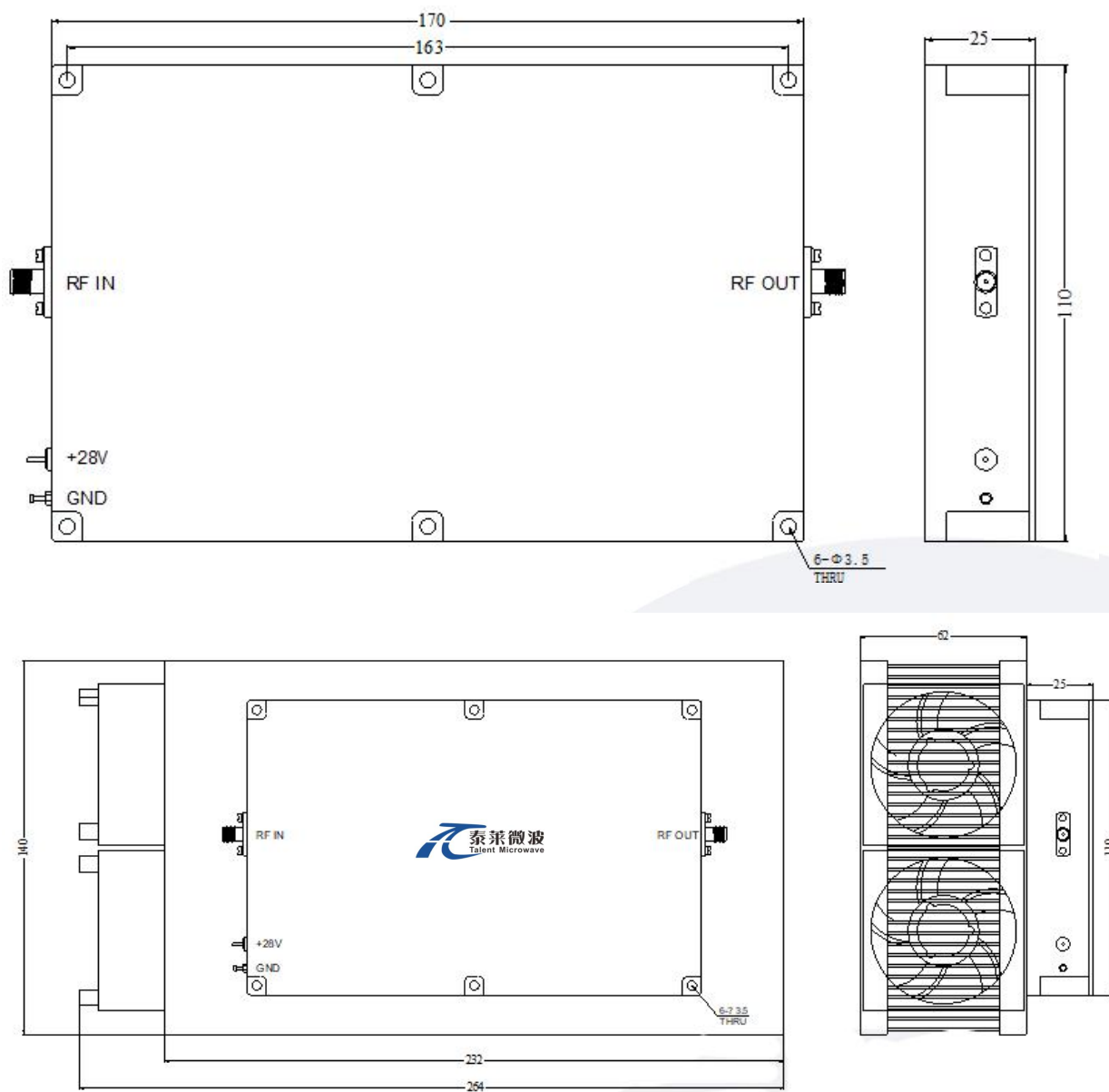
Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	-3 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+75	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA0.6G4.2G-46-44	Power amplifier 0.6-4.2MHz,Gain:46dB,Psat:44dBm, +28V DC,Without Heatsink	Rev.1.0
TLPA0.6G4.2G-46-44-HS	Power amplifier 0.6-4.2MHz,Gain:46dB,Psat:44dBm, +28V DC,With Heatsink	Rev.1.0