

Power Amplifier

2-6GHz /52dB Gain/50 dBm Psat

Model: TLPA2G6G-52-50

TLPA2G6G-52-50 is a power amplifier with a typical small signal gain of 52 dB and Psat of 50 dBm across the frequency range of 2 to 6 GHz. The DC power requirement for the amplifier is +28 VDC/3 A. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Ultra Wide Band: 2-6GHz
- Gain: 52dB Typ
- Output Power Psat: 50dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	2-6			GHz
Small Signal Gain	50	52		dB
Gain Flatness		±3	±5	dB
Output Psat	50			dBm
Harmonics		-12		dBc
Input VSWR		1.5	2	:1
DC Voltage		+28		V DC
DC Supply Current		3	22	A
Impedance	50			Ohms

Mechanical Specifications:

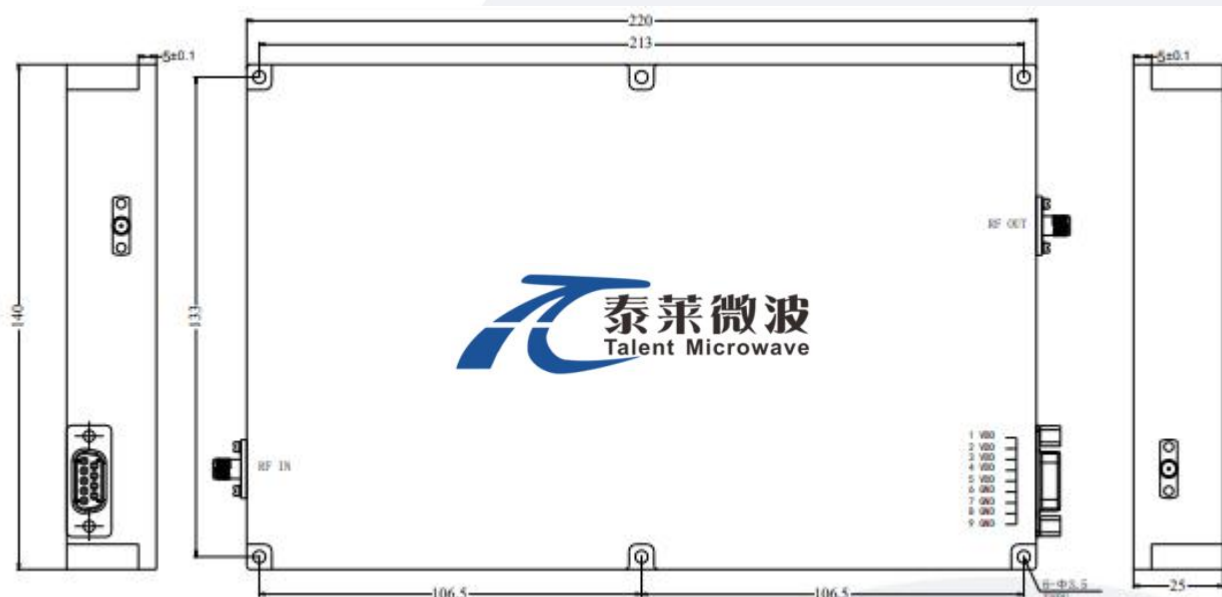
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	DSUB-9	Pin1~5:+28V Pin6~9:GND
Size	220*140*25	mm
Weight	250	g

Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm



*****Heat Sink Required During Operation**



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

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)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
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:

Base Number	Description	Revision
TLPA2G6G-52-50	Power amplifier 2-6GHz,Gain:52dB,Psat:50dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA2G6G-52-50-HS	Power amplifier 2-6GHz,Gain:52dB,Psat:50dBm, +28V DC,With Heatsink	Rev.1.1