

Model:TLPA50G65G-33-25

Power Amplifier 50-65GHz,Gain:33dB,Psat:25dBm

Feature:

- Ultra Wide Band: 50-65 GHz
- Gain: 33 dB Min
- Psat Output Power: 25 dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	50-65			GHz
Small Signal Gain	33	36		dB
Gain Flatness		±3		dB
Output P1dB	22	23		dBm
Output Psat		25		dBm
Input VSWR			2.0	:1
Output VSWR			2.0	:1
DC Voltage		4	5	V DC
DC Supply Current		1.7		A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	1.85mm Female/1.85mm Female	
DC Bias	Solder Pin	
Size	80*80*15	mm
Weight	/	g

Absolute Maximum Ratings:

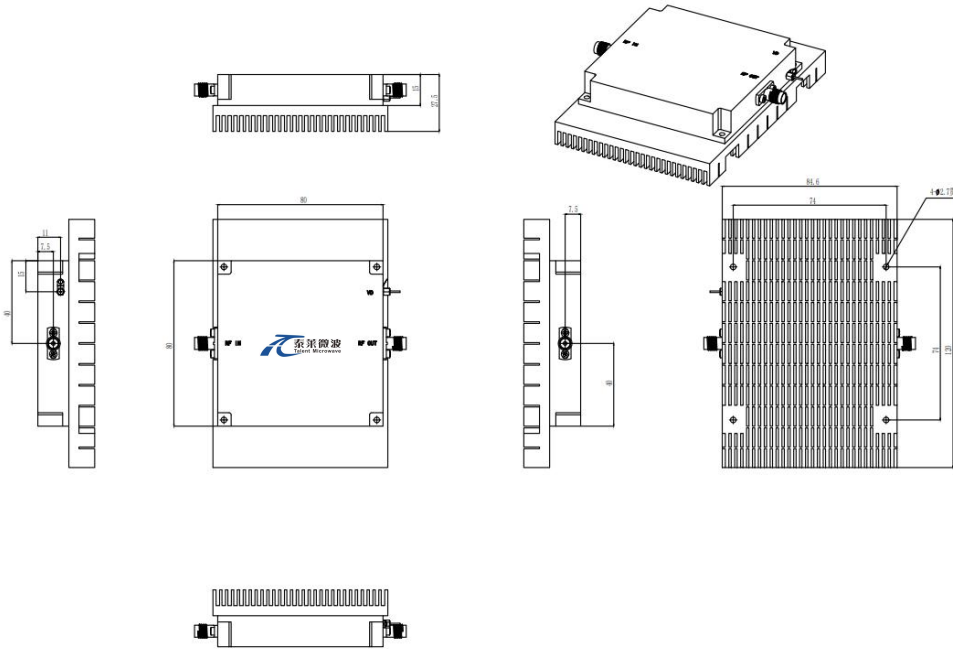
Parameter	Value
Supply Bias Voltage	+5 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+55	°C
Non-operating Temperature*	-55		+75	°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			

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

Ordering Information:

Part Number	Description	Revision
TLPA50G65G-33-25	Power amplifier 50-65GHz,Gain:33dB,Psat:25dBm, +4V DC,Without Heatsink	Rev.1.1
TLPA50G65G-33-25-HS	Power amplifier 50-65GHz,Gain:33dB,Psat:25dBm, +4V DC,With Heatsink	Rev.1.1