

Model: TLLA35G50G-43-25-GA
Low Noise Amplifier
35-50GHz, NF:2.5dB, Gain:43dB, P1dB:15dBm
Feature:

- Ultra Wide Band: 35-50GHz
- Gain: 43dB Typ
- Noise Figure: 2.5dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	35-50			GHz
Gain	40	43		dB
Gain Flatness		±3.0		dB
Noise Figure		2.5	3.0	dB
Output P1dB	13	15		dBm
Output Psat		16		dBm
Gain Adjustment Range	40	42		dB
Input VSWR		4		:1
Output VSWR		2		:1
Attenuator Control Voltage	-5		0	V DC
DC Voltage	5.5	6	8	V DC
DC Supply Current		320		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.4mm Female/2.4mm Female	
DC Bias	Solder Pin	
Size	50*60*12	mm
Weight	/	g

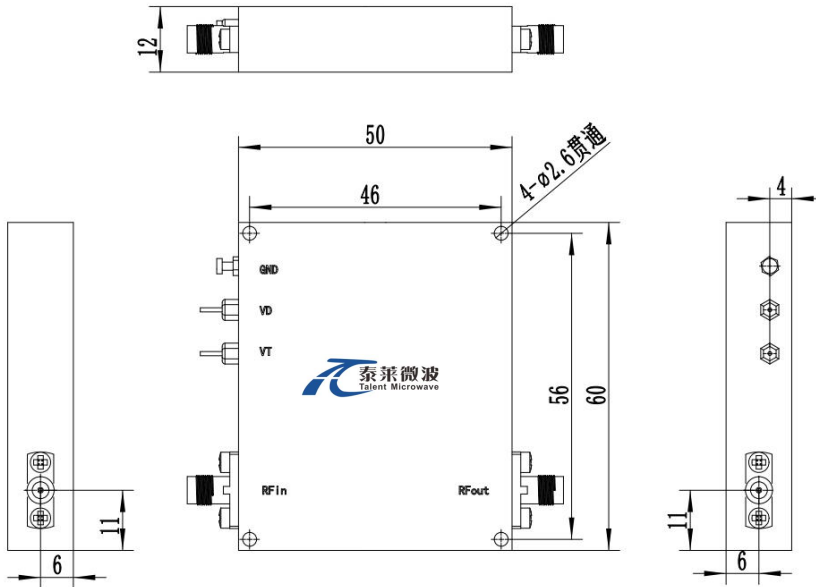
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+8 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	-45		+85	°C
Non-operating Temperature	-55		+125	°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			

Ordering Information:

Part Number	Description	Revision
TLLA35G50G-43-25-GA	Low Noise Amplifier, 35-50GHz, Noise Figure:2.5dB, Gain:43 dB,P1dB:15dBm,+6V DC,Without Heatsink	Rev.1.1
TLLA35G50G-43-25-GA-HS	Low Noise Amplifier, 35-50GHz, Noise Figure:2.5dB, Gain:43 dB,P1dB:15dBm,+6V DC,With Heatsink	Rev.1.1