

Model: TLLA37G42G-20-50
Low Noise Amplifier
37-42GHz, NF:5.0dB, Gain:20dB, P1dB:15dBm
Feature:

- Ultra Wide Band: 37-42GHz
- Gain: 20dB Min
- Noise Figure: 5.0dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	37-42			GHz
Gain	20			dB
Noise Figure			5	dB
Output P1dB	15			dBm
Spurious			-50	dBc
Input VSWR		2	2.5	:1
Output VSWR		2	2.5	:1
DC Voltage		12		V DC
DC Supply Current			500	mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.4mm Female/2.4mm Female	
DC Bias	Solder Pin	
Size	60*65*11	mm
Weight	200	g

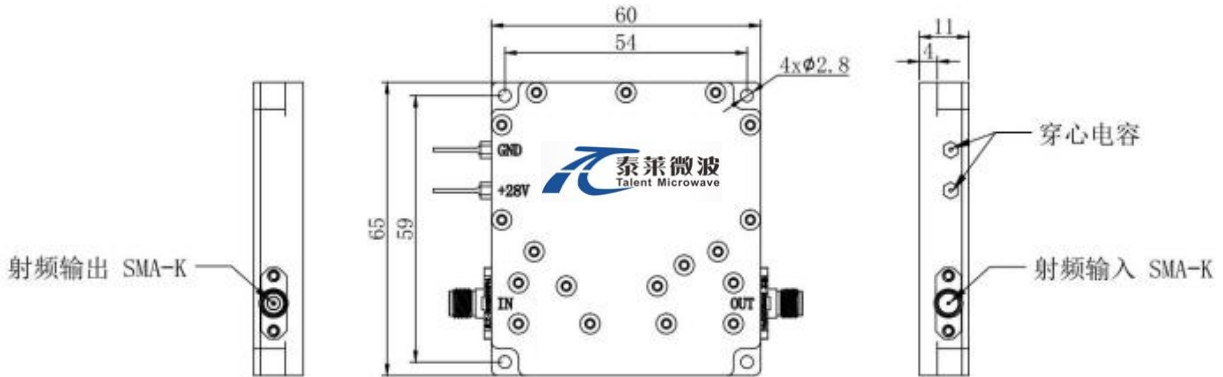
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+12V
RF Input Power	0 dBm
ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System
 Benchtop Amplifier**

Outline Drawing:

Unit: mm(inches)



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+60	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			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
TLLA37G42G-20-50	Low Noise Amplifier, 37-42GHz, Noise Figure:5.0dB, Gain:20 dB,P1dB:15dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA37G42G-20-50-HS	Low Noise Amplifier, 37-42GHz, Noise Figure:5.0dB, Gain:20 dB,P1dB:15dBm,+12V DC,With Heatsink	Rev.1.1