

Model:TLA17G40G-37-45
Low Noise Amplifier
17-40GHz, NF:4.5dB, Gain:37dB,P1dB:28dBm
Feature:

- Ultra Wide Band: 17-40GHz
- Gain: 37dB Typ
- Noise Figure: 4.5dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	17-40			GHz
Gain	35	37		dB
Gain Flatness		±3.5		dB
Noise Figure		4.5	6	dB
Output P1dB	26.5	28		dBm
Output Psat		29		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		+6	+8	V DC
DC Supply Current		1.3		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
Size	44*52*13(Without Heatsink) 50*63*120(With Heatsink)	mm
Weight	/	g

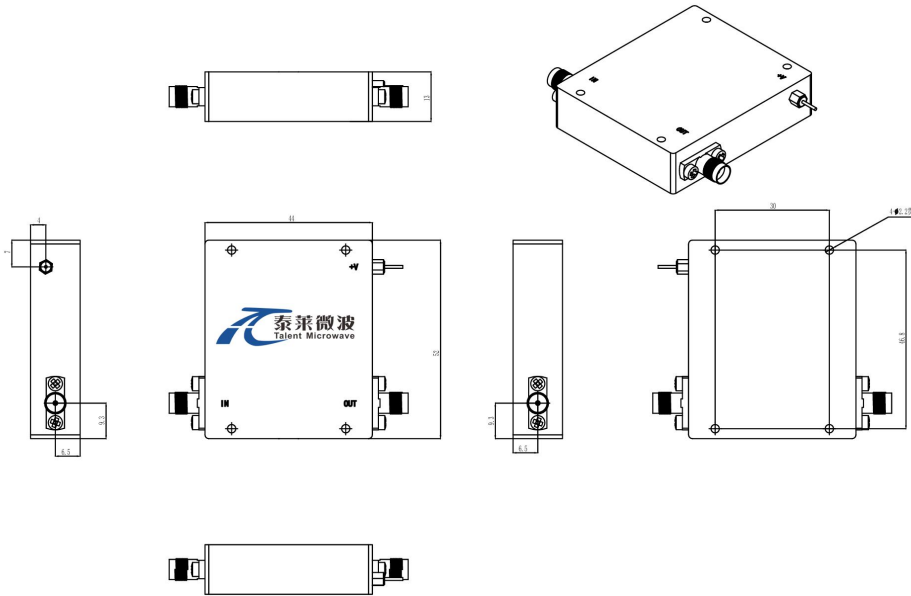
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+8V
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	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
TLLA17G40G-37-45	Low Noise Amplifier, 17-40GHz, Noise Figure:4.5dB, Gain:37 dB,P1dB:28dBm,+6V DC,Without Heatsink	Rev.1.1
TLLA17G40G-37-45-HS	Low Noise Amplifier, 17-40GHz, Noise Figure:4.5dB, Gain:37 dB,P1dB:28dBm,+6V DC,With Heatsink	Rev.1.1