

Model:TLPA6G12G-30-36

Power Amplifier

6-12GHz,Gain:30dB,P1dB:36dBm

Feature:

- Ultra Wide Band:6-12GHz
- Gain:30dB Min
- Psat Output Power:38dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	6-12			GHz
Gain	30			dB
Gain Flatness		±1.5	±2.5	dB
Output P1dB	36	37		dBm
Output Psat		38		dBm
Spurious		-60		dBc
Input VSWR		1.5	2	:1
Output VSWR		1.5	2	:1
DC Voltage		+12		V DC
DC Supply Current		2.3	2.5	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	85*50*12	mm
Weight	300	g

Absolute Maximum Ratings:

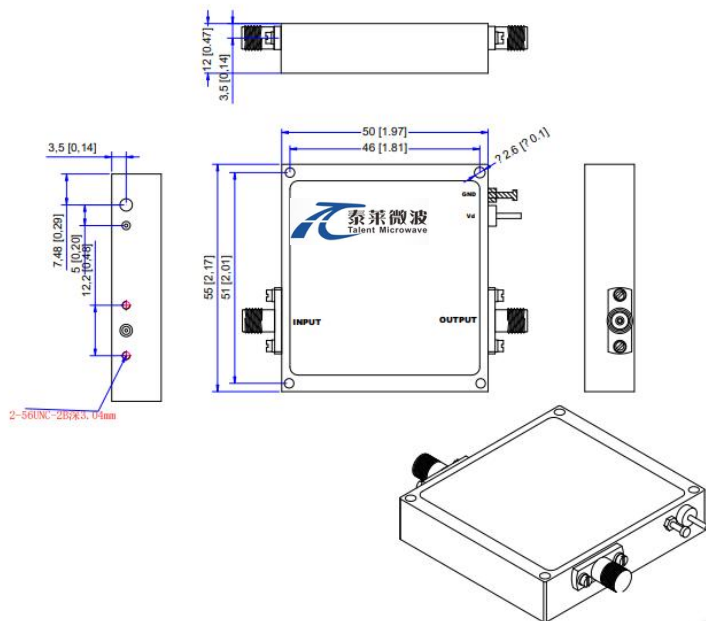
Parameter	Value
Supply Bias Voltage	+12V
RF Input Power	12dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Parameter	Min	Typ	Max	Units
Operating Temperature	-35		+70	°C
Non-operating Temperature	-55		+125	°C
Relative humidity	100%RH at 35°C, 95%RH at 40°C			%
Altitude	50000			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
TLPA6G12G-30-36	Power amplifier 6-12GHz,Gain30dB,P1dB:36dBm,+12V DC,Without Heatsink.	Rev.1.1
TLPA6G12G-30-36-HS	Power amplifier 6-12GHz,Gain30dB,P1dB:36dBm,+12V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

Input VSWR vs Frequency

