

Model:TLPA37G42G-35-23

Power Amplifier

37-42GHz,Gain:36dB,Psat:23dBm

Feature:

- Ultra Wide Band: 37-42GHz
- Gain:36dB Typ
- Psat Output Power:24dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	37-42			GHz
Gain		36		dB
Gain Flatness			±2	dB
Output P1dB		23		dBm
Output Psat		24		dBm
Input VSWR		1.8	2.5	:1
Output VSWR		1.8	2.5	:1
DC Voltage		12		V DC
DC Supply Current		1		A
Impedance	50			Ohms

Mechanical Specifications:

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

Absolute Maximum Ratings:

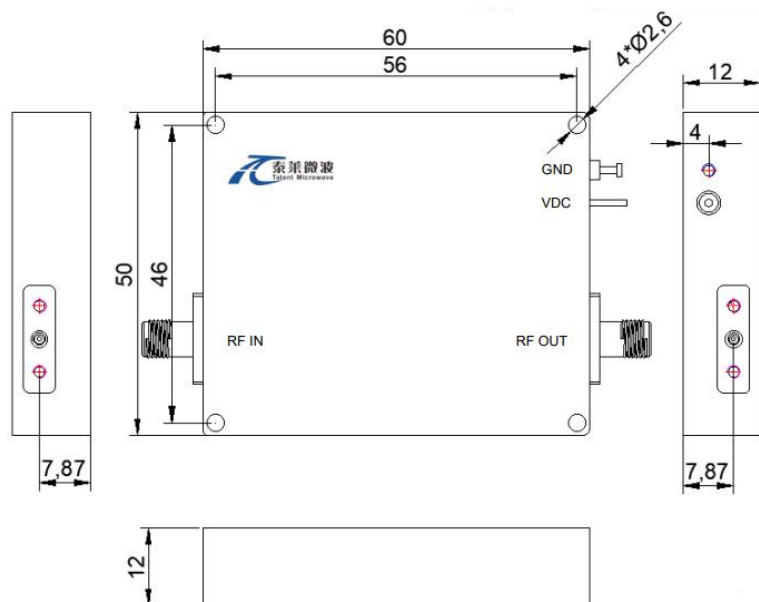
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	-5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



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		+75	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	10000		30000	feet
Shock / Vibration(MIL-STD-810F)	Airborne			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA37G42G-35-23	Power amplifier 37-42GHz,Gain:36dB,P1dB:23dBm,+12V DC,Without Heatsink.	Rev.1.1
TLPA37G42G-35-23-HS	Power amplifier 37-42GHz,Gain:36dB,P1dB:23dBm,+12V DC,With Heatsink.	Rev.1.1