

**Model:TLPA0.7G5G-20-32**
**Power Amplifier**
**700MHz-5GHz, Gain:20dB, P1dB:30dBm**
**Feature:**

- Ultra Wide Band: 700MHz-5GHz
- Gain: 20dB Min
- P1dB Output Power: 30 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Frequency range	0.7-5			GHz
Gain	20	25		dB
Gain Flatness		±2	±3	dB
Output P1dB	30	31		dBm
Output Psat		32		dBm
Harmonic @Pout=40dBm		-15		dBc
Input VSWR		1.5	2.0	:1
DC Voltage		12	15	V DC
DC Supply Current		0.7	1.0	A
Impedance	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	SMA Female	
Bias	Solder Pin	
Size	100*50*15	mm
Weight	150	g

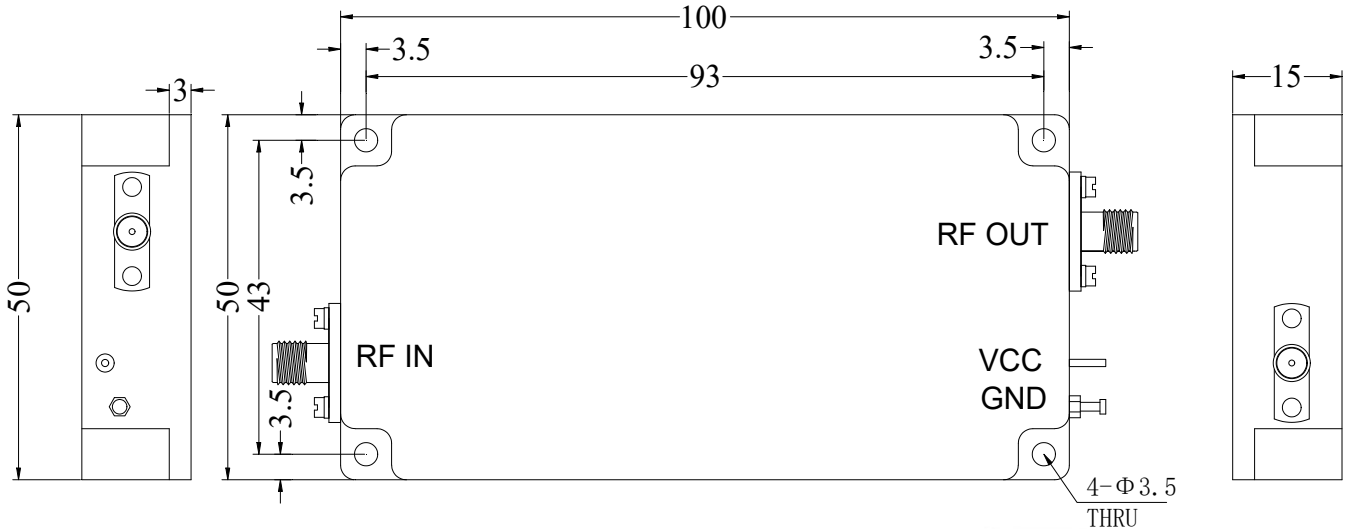

 Available 220V System  
 Benchtop Amplifier

**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	15V
RF INPUT POWER	0 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

**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	30,000			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
TLPA0.7G5G-20-32	Power amplifier 700MHz-5GHz,Gain:20dB,P1dB:30dBm, 12V DC, Without Heatsink	Rev.1.0
TLPA0.7G5G-20-32-HS	Power amplifier 700MHz-5GHz,Gain:20dB,P1dB:30dBm, 12V DC, With Heatsink	Rev.1.0