泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Model:TLPA1G2G-40-45

Power Amplifier 1GHz-2GHz,Gain:40dB,Psat:45dBm

Feature:

- Wide Band: 1GHz-2GHz
- Gain: 40dB Min
- P1dB Output Power: 43 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		1-2		GHz
Gain	40	43		dB
Gain Flatness		±1	±1.5	dB
Output P1dB	43	44		dBm
Output Psat	44	45		dBm
IMD3@ 37dBm/Tone, 7MHz	30			dBc
Harmonics @Pout=43dBm		-17	-15	dBc
Input VSWR		1.3	1.5	:1
DC Voltage	34	36	38	V DC
DC Supply Current		1.2	5	A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female	
Bias	Solder Pin	
Size	139*97*20	mm
Weight	700	g

Available 220V System Benchtop Amplifier

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	30V
RF INPUT POWER	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V

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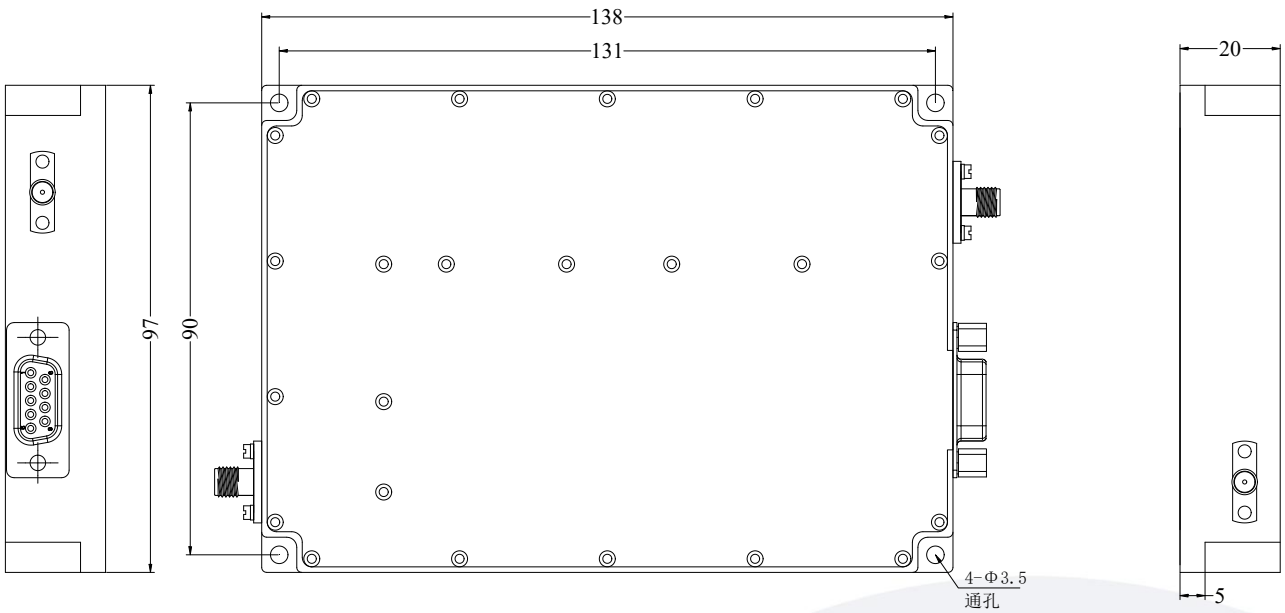
Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+70	℃
Non-operating Temperature	-55		+125	℃
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
TLPA1G2G-40-45	Power amplifier 1GHz-2GHz,Gain:40dB,P1dB:43dBm,36V DC, Without Heatsink	Rev.1.0
TLPA1G2G-40-45-HS	Power amplifier 1GHz-2GHz,Gain:40dB,P1dB:43dBm,36V DC, With Heatsink	Rev.1.0

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J3OJ-9ZKW-J(J30J-9TJL):

Pin	Identification	Type	Function specification
1	VCC	Input	Power supply positive +34.0-38.0VDC
2	VCC	Input	Power supply positive +34.0-38.0VDC
3	VCC	Input	Power supply positive +34.0-38.0VDC
4	GND	Input	Power supply negative
5	GND	Input	Power supply negative
6	NC		
7	Over TEM	Input	When the temperature exceeds 70℃, the power amplifier is automatically turned off, and the output of this pin is high level. Whenthe temperature drops to 60℃, the power amplifier will be turned onautomatically, and this pin is at low level.
8	NC		
9	+28V	Input	(or suspended) turn on the power amplifier and turn it off at low level.

Notes: TTL is 5V