

Model:TLPA3G6G-40-41

Power Amplifier 3-6GHz,Gain:40dB,Psat:41dBm

Feature:

- Ultra Wide Band: 3-6GHz
- Gain: 40dB Min
- Psat Output Power: 41 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	3-6			GHz
Gain	40	42		dB
Gain Flatness		±2	±3	dB
Output P1dB	40	40.5		dBm
Output Psat	41	41.5		dBm
Harmonic @Pout=40dBm		-15		dBc
Input VSWR		1.5	2.0	:1
DC Voltage	26	28	30	V DC
DC Supply Current		0.5	2	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female	
Bias	Solder Pin	
Size	100*86*40	mm
Weight	250	g

Absolute Maximum Ratings:

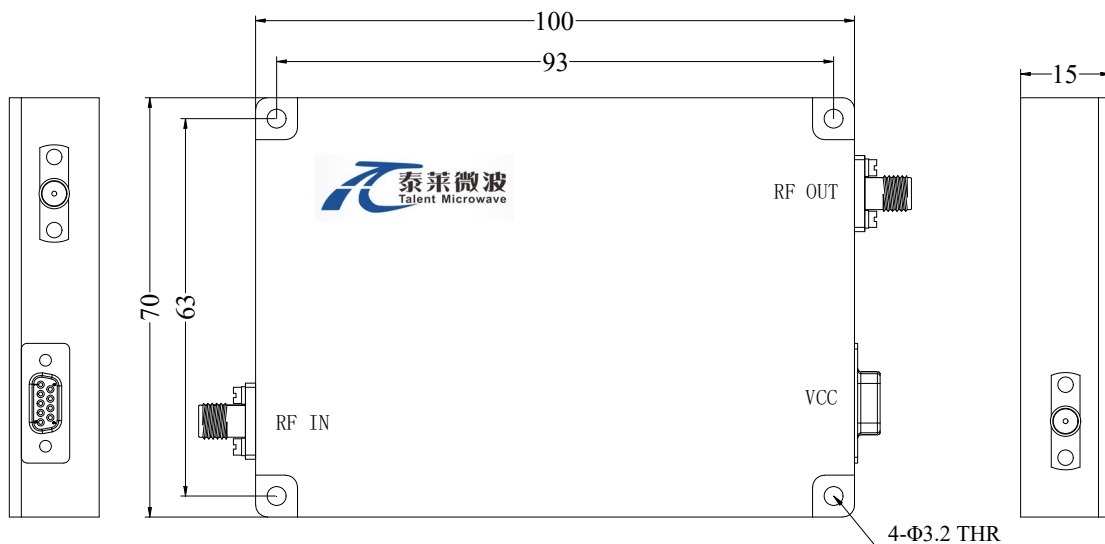
Parameter	Value
Supply Bias Voltage	+30V
RF INPUT POWER	5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



*****Heat Sink Required During Operation**

J30J-9ZKW-J(with J30J-9TJL)



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Pin	Identification	Type	Function specification
1	Power amplifier enable	Input	A high (or suspended) level turns on the power amplifier, and a low level turns it off
2	GND	Input	Power supply negative
3	GND	Input	Power supply negative
4	GND	Input	Power supply negative
5	GND	Input	Power supply negative
6	+28V	Input	Power supply positive +26.0-30.0VDC
7	+28V	Input	Power supply positive +26.0-30.0VDC
8	+28V	Input	Power supply positive +26.0-30.0VDC
9	+28V	Input	Power supply positive +26.0-30.0VDC

Note: TTL is 5V

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
TLPA3G6G-40-41	Power amplifier 3GHz-6GHz,Gain:40dB,Psat:41dBm,28V DC, Without Heatsink	Rev.1.0
TLPA3G6G-40-41 -HS	Power amplifier 3GHz-6GHz,Gain:40dB,Psat:41dBm,28V DC, With Heatsink	Rev.1.0