

Model:TLPA30M1G-43-43

Power Amplifier 30MHz-1GHz,Gain:43dB,Psat:43dBm

Feature:

- Ultra Wide Band: 30MHz-1GHz
- Gain: 43 dB Min
- Psat Output Power: 43 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	30MHz-1GHz			
Gain	43	45		dB
Gain Flatness		±2	±3	dB
Output P1dB	41			dBm
Output Psat	43	44		dBm
Harmonic		-10		dBc
Input VSWR		1.5	2.0	:1
DC Voltage		28	30	V DC
DC Supply Current		1	6	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	D-SUB-9	
Size	170*80*20	mm
Weight	500	g

Absolute Maximum Ratings:

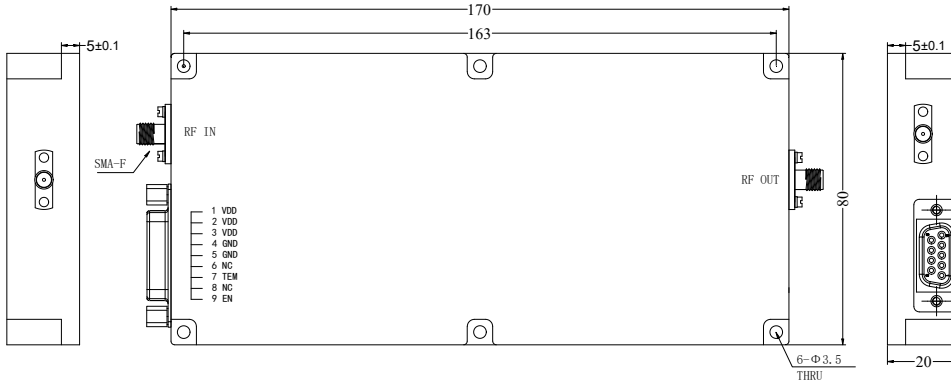
Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

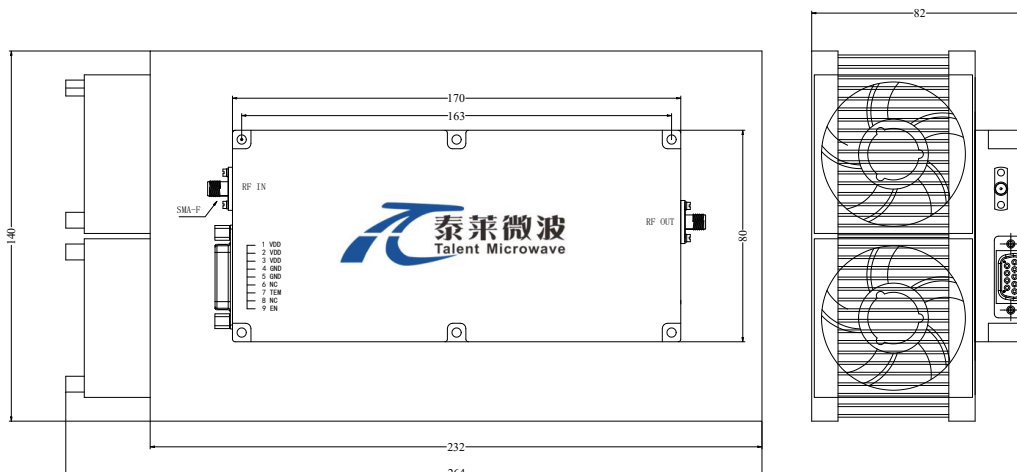
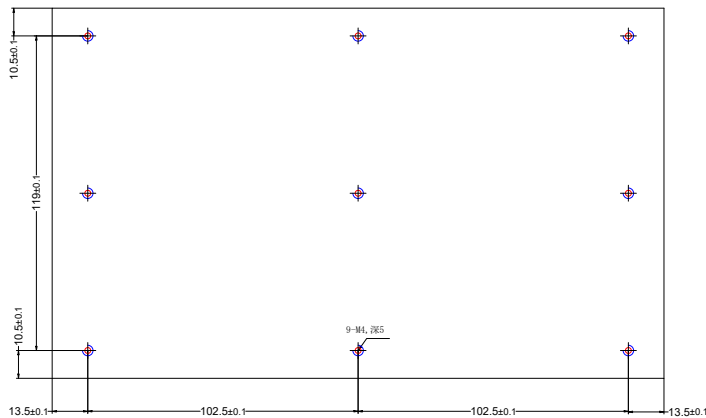
Unit: mm



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES



Fans Supply Current: 0.4A@24V

D-sub, 9-Pin, Female:

Pin	Name	Function
1	+28V	+26.0-30.0VDC
2	+28V	+26.0-30.0VDC
3	+28V	+26.0-30.0VDC
4	GND	Ground
5	GND	Ground
6	NC	Not connected
7	Over Temperature	When the temperature of the case exceeds 85 °C, the power amplifier will turn off and this pin will be pulled high. If the temperature of case drops to 70 °C, the power amplifier will return to normal operation, and this pin will be pulled low.
8	NC	Not connected
9	EN	Amplifier Enable: TTL High (5V) (Internally Pulled-High) Amplifier Disable: Short to ground

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+50	°C
Non-operating Temperature*	-50		+60	°C
Relative humidity		95		%
Altitude		10,000		feet
Shock / Vibration(MIL-STD-810F)		20g,11ms,saw-tooth		
Shock(non operating)		20G for 11msc half sin wave,3 axis both directions		

*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

Part Number	Description	Revision
TLPA30M1G-43-43	Power amplifier 30MHz-1GHz,Gain:43dB,Psat:43dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA30M1G-43-43-HS	Power amplifier 30MHz-1GHz,Gain:43dB,Psat:43dBm, +28V DC,With Heatsink	Rev.1.1