

Model:TLPA20M1G-43-43-HS
Power Amplifier
20MHz-1.0GHz, Gain:43dB, Psat:43dBm
Feature:

- Wide Band: 20MHz-1GHz
- Gain: 43dB 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	0.02-1.0			GHz
Gain	43	45		dB
Gain Flatness		±2	±3	dB
P1dB		41		dBm
Psat	43	44		dBm
Harmonics		10		dBc
Input VSWR		1.5	2.0	:1
DC Voltage		28	30	V DC
DC Supply Current		1	5	A
Impedance	50			Ohms

Mechanical Specifications:

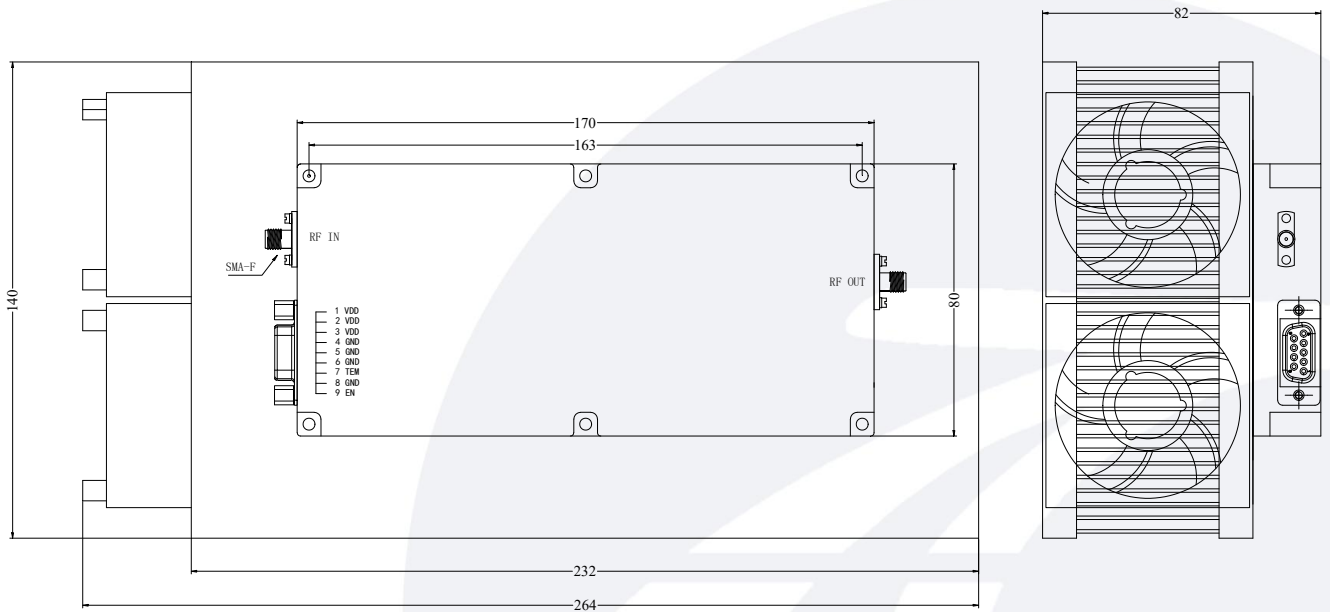
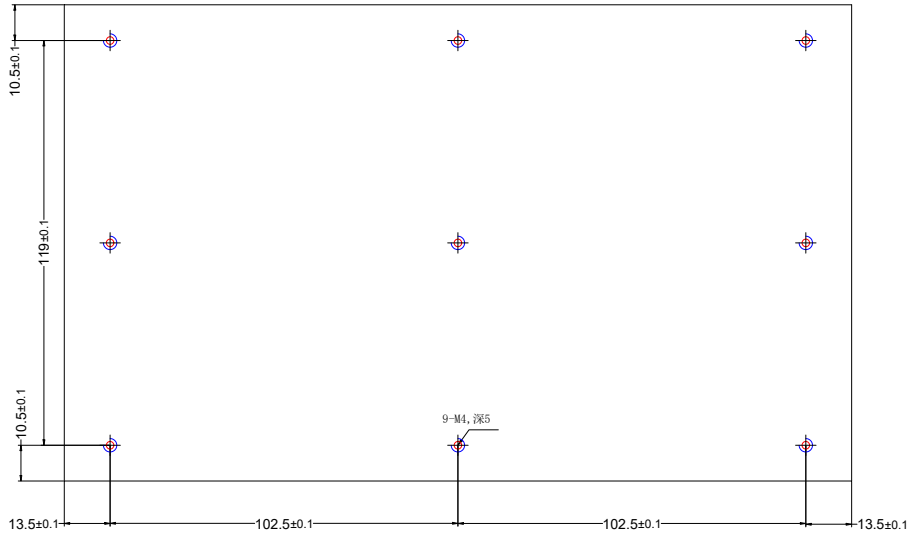
Parameter	Value	Units
Input /Output Connector	SMA Female	
Bias	D-SUB-9	
Size	170X80X20	mm
Weight	200	g


**Available 220V System
Benchtop Amplifier**
Absolute Maximum Ratings:

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

Outline Drawing:

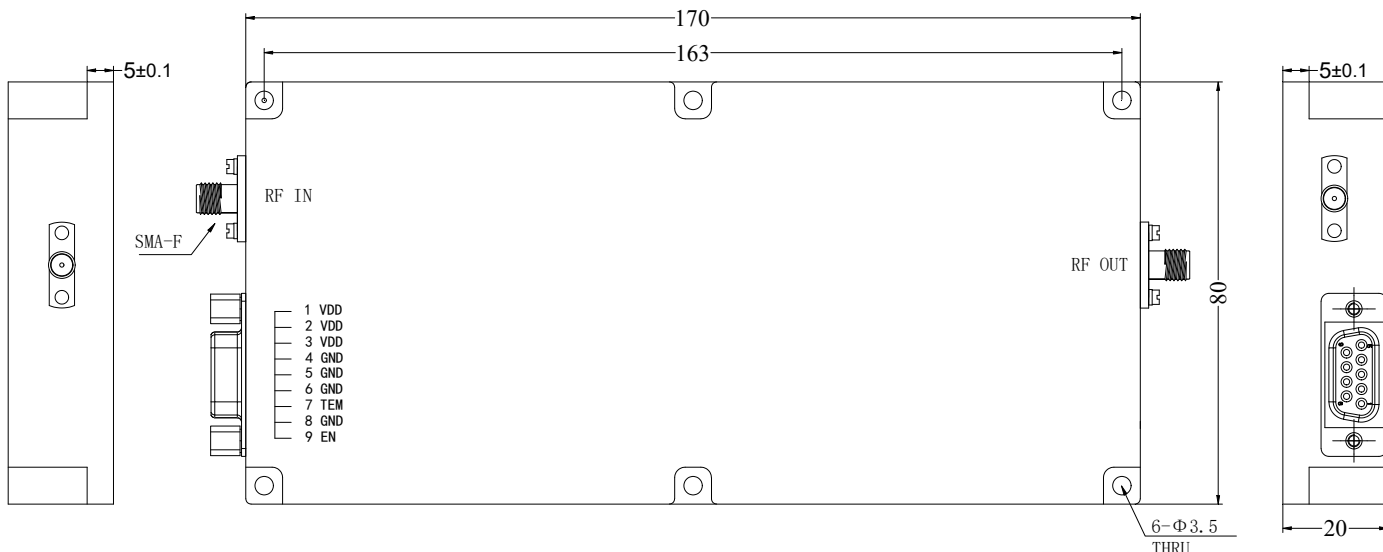
Unit: mm



风扇供电 Fans Supply Current: 0.4A@24V

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
TLPA20M1G-43-43	Power amplifier 20MHz-1.0GHz,Gain:43dB,Psat:43dBm,28V DC, Without Heatsink	Rev.1.0
TLPA20M1G-43-43-HS	Power amplifier 20MHz-1.0GHz,Gain:43dB,Psat:43dBm,28V DC, With Heatsink	Rev.1.0