

Model:TLPA100K200M-43-44-HS

Power Amplifier

100KHz-200MHz, Gain:43dB, Psat:44dBm

Feature:

- Ultra Wide Band: 100KHz-200MHz
- Gain: 43 dB Typ
- Psat Output Power: 44 dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.1-200			MHz
Small Signal Gain	40	43		dB
Gain Flatness		±1.3	±1.6	dB
Output P1dB	42	43		dBm
Output Psat	43	44		dBm
Noise Figure		9		dB
Input VSWR			2.0	:1
DC Voltage		24	25	V DC
DC Supply Current	6			A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	154*94*20(Without Heatsink) 264*140*82(With Heatsink)	mm
Weight	150	g

Absolute Maximum Ratings:

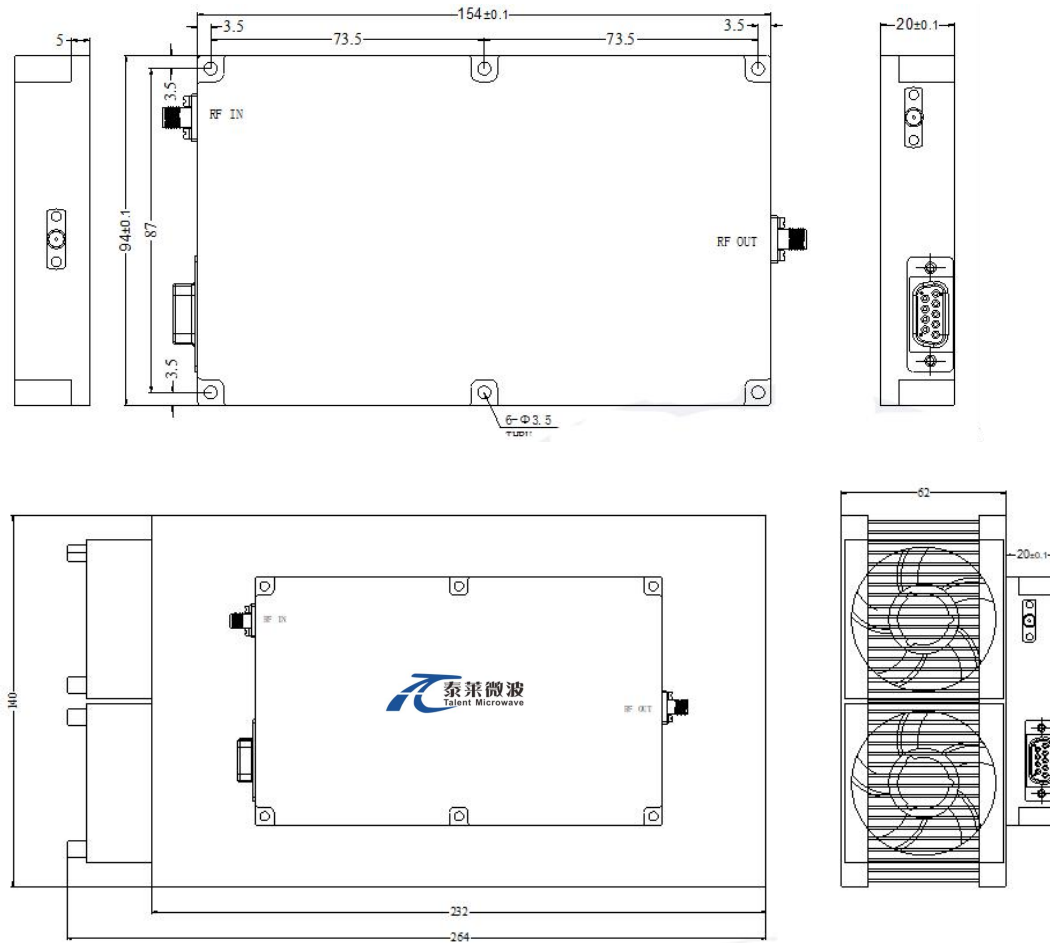
Parameter	Value
Supply Bias Voltage	+25 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+75	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA100K200M-43-44	Power amplifier 0.1-200MHz,Gain:43dB,Psat:44dBm, +24V DC,Without Heatsink	Rev.1.0
TLPA100K200M-43-44-HS	Power amplifier 0.1-200MHz,Gain:43dB,Psat:44dBm, +24V DC,With Heatsink	Rev.1.0