

Model:TLPA100M1000M-35-45
Power Amplifier
100-1000MHz,Gain:35dB,Psat:45dBm
Feature:

- Ultra Wide Band: 100-1000MHz
- Gain:35 dB Min
- Psat Output Power: 45 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	100-1000			MHz
Gain	35	38		dB
Gain Flatness		±1.5	±2	dB
Outout P1dB	42	43		dBm
Output Psat	45	46		dBm
Input VSWR		1.5	2.0	:1
Output VSWR		1.5	2.0	:1
DC Voltage	+28			V DC
DC Supply Current		1	12	A
Impedance	50			Ohms

Mechanical Specifications:

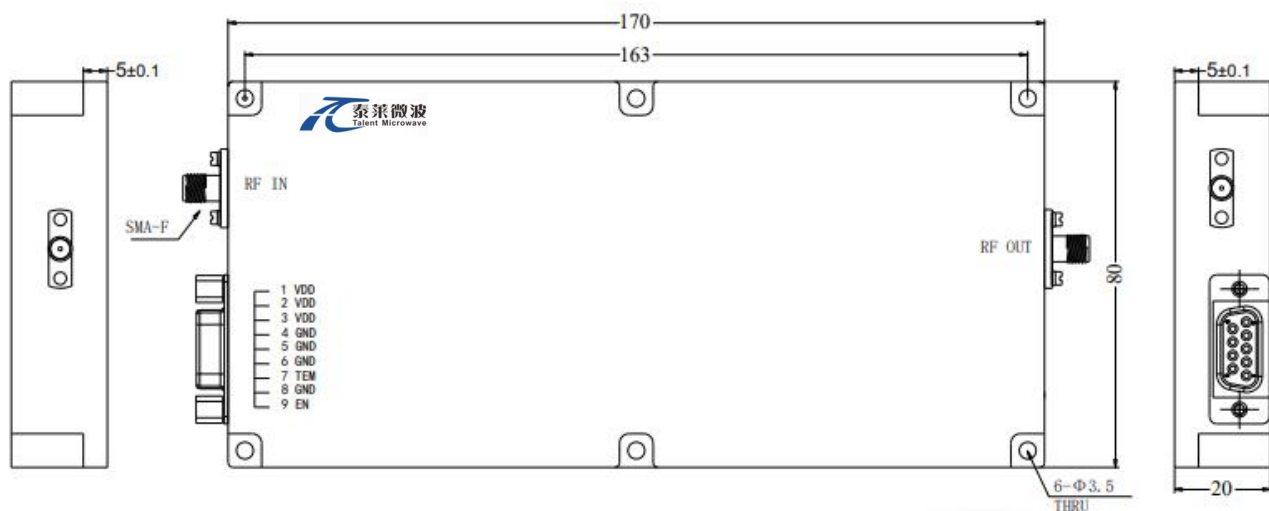
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	D-SUB-9	
Size	170*80*20	mm
Weight	200	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+30V
RF Input Power	+16 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

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)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA100M1000M-35-45	Power amplifier 100-1000MHz,Gain:35dB,Psat:45dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA100M1000M-35-45- HS	Power amplifier 100-1000MHz,Gain:35dB,Psat:45dBm, +28V DC,With Heatsink	Rev.1.1