

Model:TLPA80M1000M-50-50

Power Amplifier 0.08-1GHz,Gain:50dB,Psat:50dBm

Feature:

- Ultra Wide Band: 0.08-1GHz
- Gain: 50 dB Min
- Psat Output Power: 50 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.08-1			GHz
Gain	50	52		dB
Gain Flatness			±3	dB
Output P1dB	47			dBm
Output Psat	50			dBm
Input VSWR		1.5	2.0	:1
DC Voltage		+28		V DC
DC Supply Current		15		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:

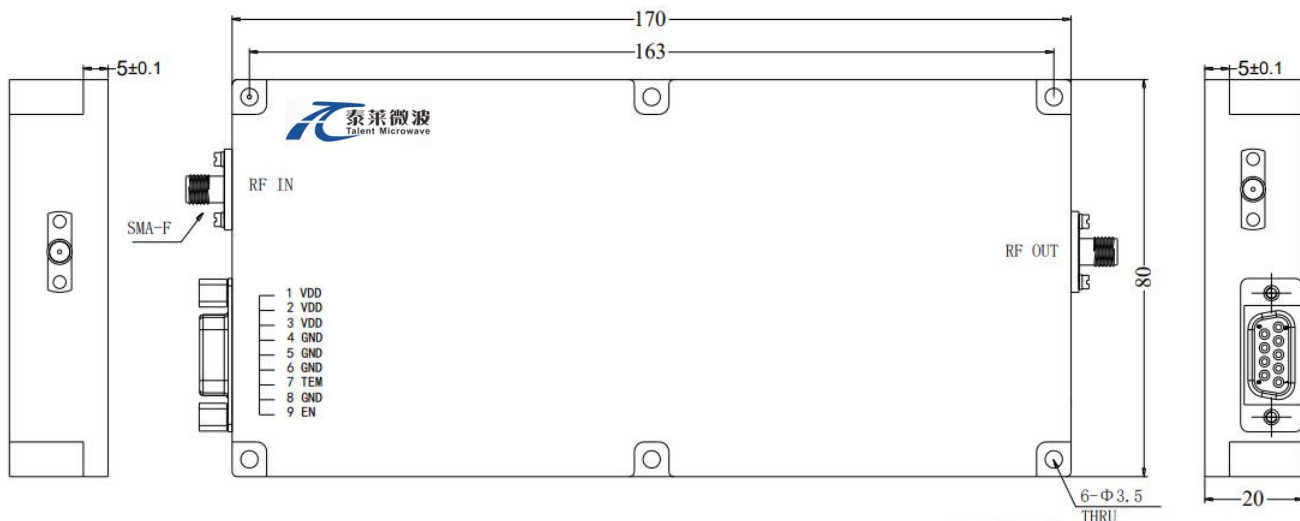
Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



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

Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

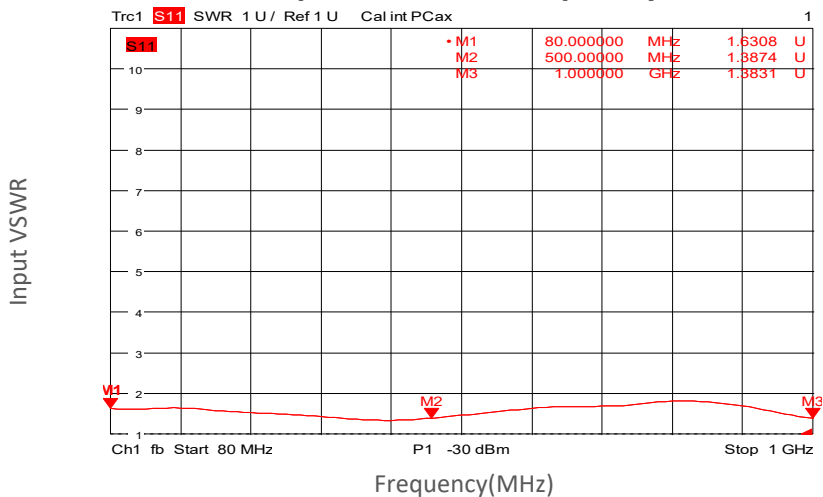
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

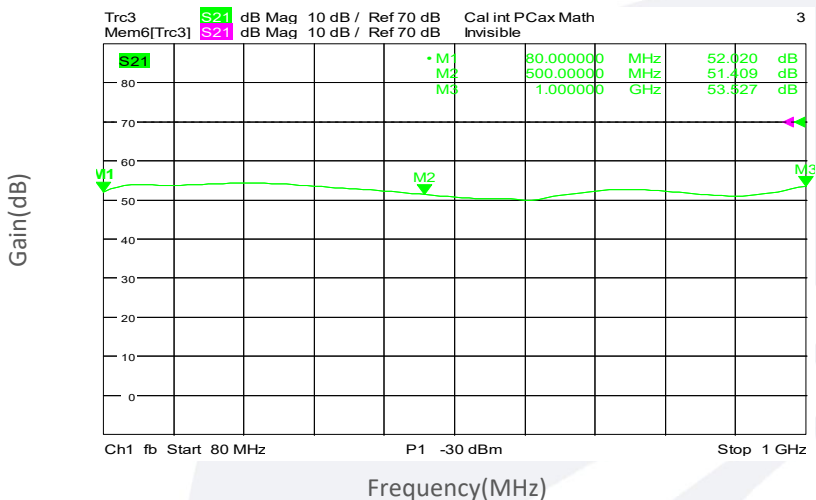
Part Number	Description	Revision
TPLA80M1000M-50-50	Power amplifier 0.08-1GHz,Gain:50dB,Psat:50dBm, +28V DC,Without Heatsink	Rev.1.1
TPLA80M1000M-50-50- HS	Power amplifier 0.08-1GHz,Gain:50dB,Psat:50dBm, +28V DC,With Heatsink	Rev.1.1

Typical Performance Data:

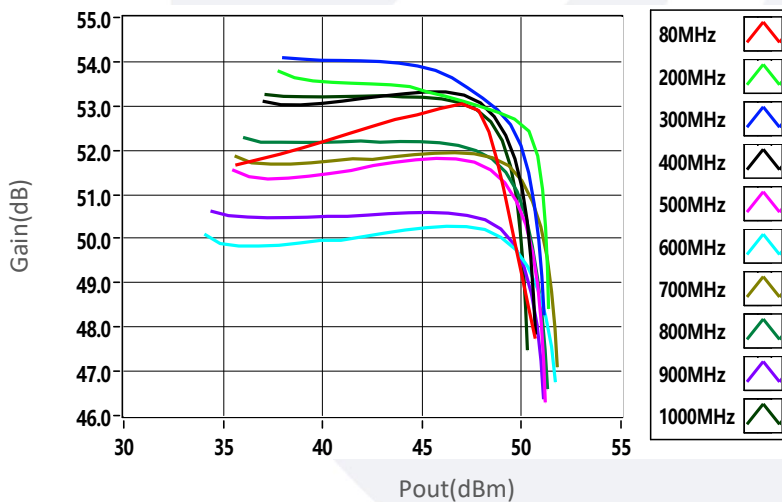
Input VSWR vs Frequency



Gain vs Frequency



Gain vs Output Power



P1dB&P3dB&P5dB vs Frequency

