

Model:TLPA50M350M-33-33
Power Amplifier
50-350MHz,Gain:33dB,Psat:33dBm
Feature:

- Ultra Wide Band: 50-350MHz
- Gain: 33dB Min
- Psat Output Power: 33 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	50-350			MHz
Gain	33	35		dB
Gain Flatness		±1	±2	dB
Output Psat	33	34		dBm
Input VSWR			1.5	:1
DC Voltage		+12		V DC
DC Supply Current	1000			mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	120*87*24	mm
Weight	200	g

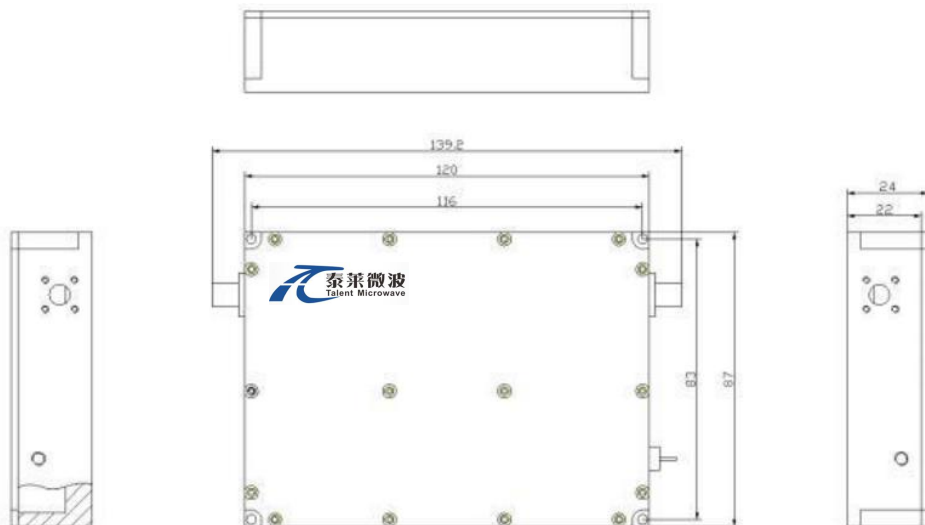
Absolute Maximum Ratings:

Parameter	Value
RF Input Power	0dBm
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

Environmental Conditions:

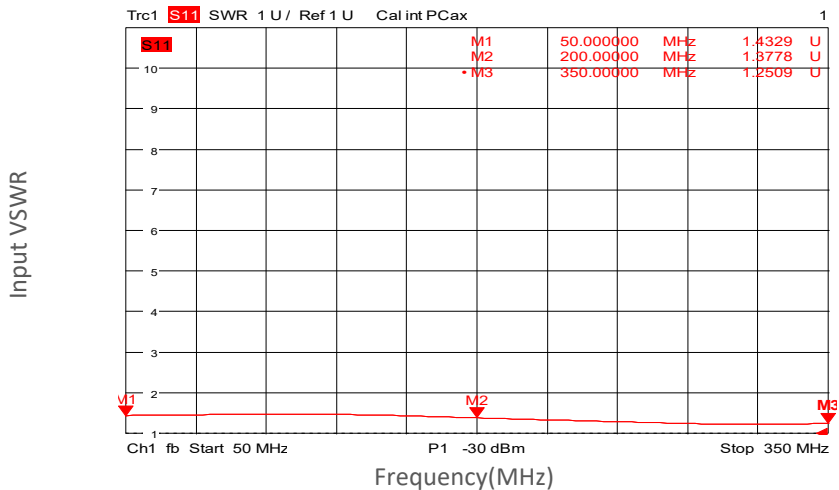
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

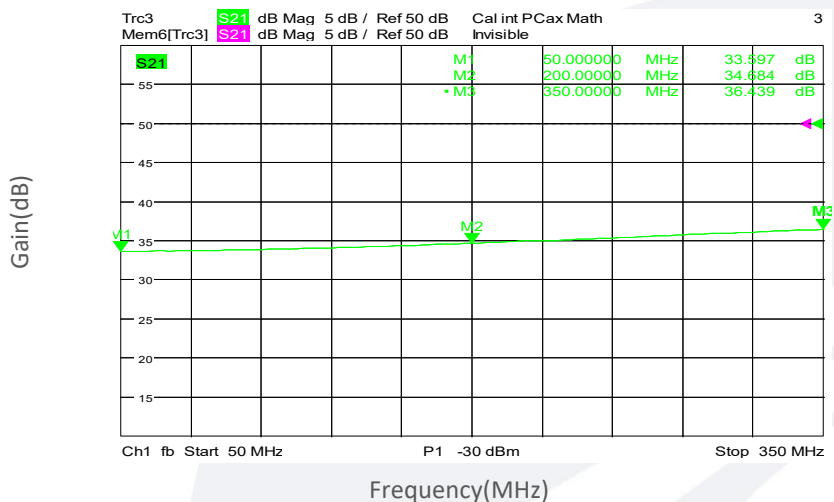
Part Number	Description	Revision
TLPA50M350M-33-33	Power amplifier 50-350MHz,Gain:33dB,PsatdB:33dBm,+12V DC,Without Heatsink.	Rev.1.1
TLPA50M350M-33-33-HS	Power amplifier 50-350MHz,Gain:33dB,PsatdB:33dBm,+12V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

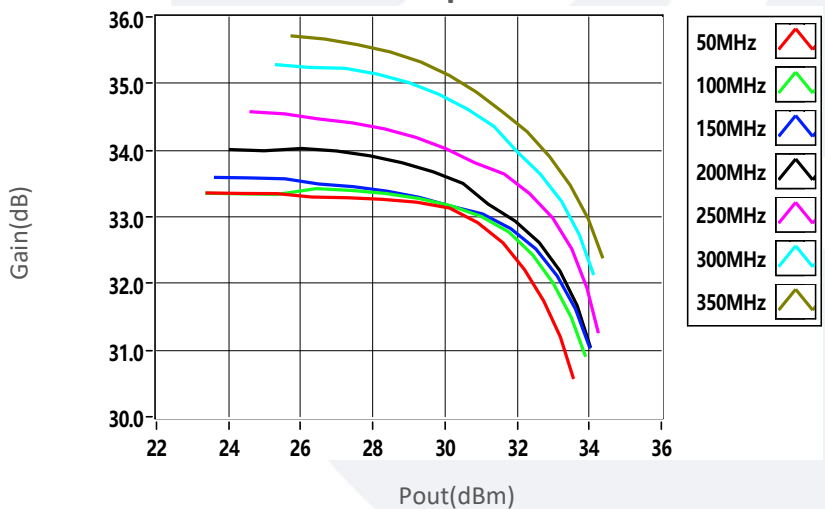
Input VSWR vs Frequency



Gain vs Frequency

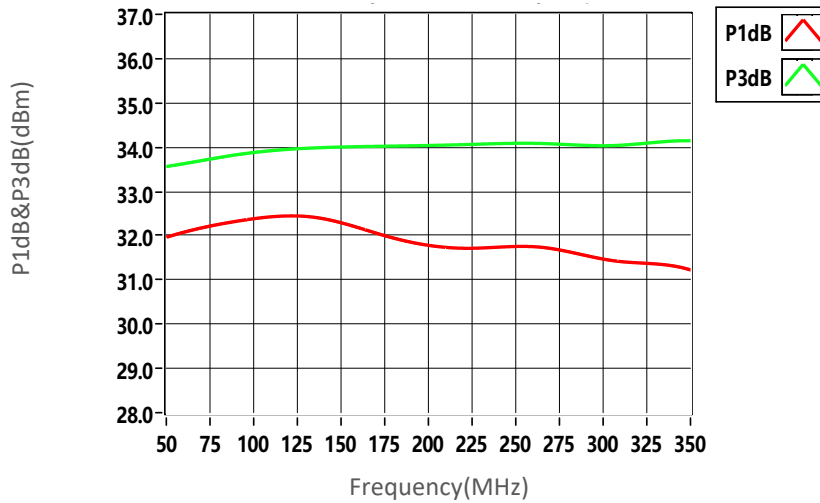


Gain vs Output Power

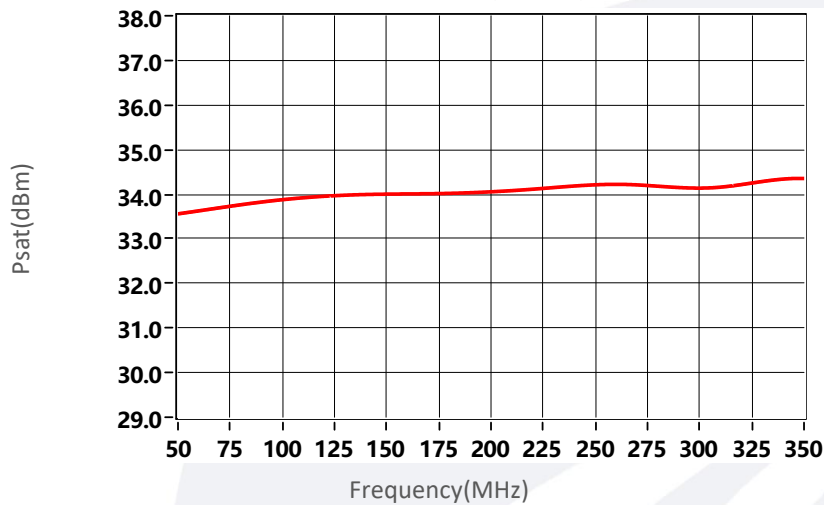


Typical Performance Data:

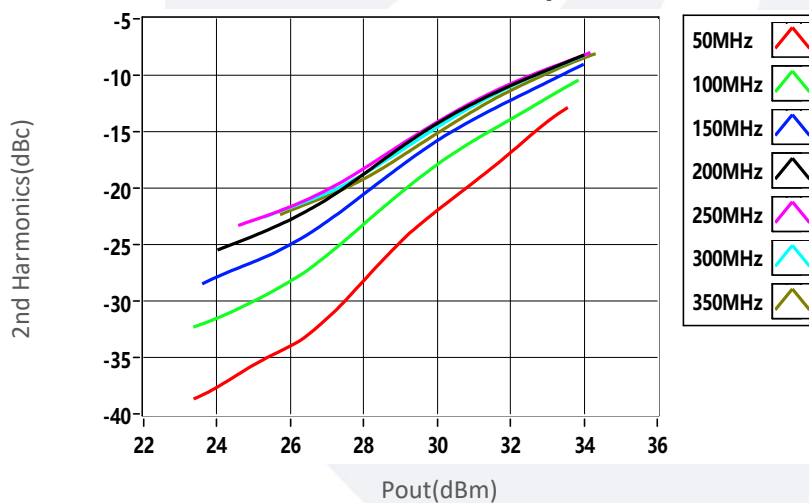
P1dB&P3dB vs Frequency



Psat vs Frequency



2nd Harmonics vs Output Power



Typical Performance Data:

3rd Harmonics vs Output Power

