

Model:TLPA1M500M-54-54-BC
**Solid State High Power Amplifier Systems
 1-500MHz,Gain:54dB,Psat:54 dBm,220V AC**
Feature:

- Wide Band: 1-500MHz
- Gain: 54dB Min
- Psat Output Power:54dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection.
- 50 Ohm Matched Input / Output


Electrical Specifications:

Parameter	Symbo	Min	Typ	Max	Units
Frequency range	BW	1-500			MHz
Gain	GP	54			dB
Gain flatness	Δ GL		± 2	± 3	dB
Output P1dB	P1dB		50		dBm
Output Psat	Psat	54			dBm
Spurious	Spur			-60	dBc
Harmonics	HAM			-10	dBc
Input VSWR	VSWRin		1.5	2.0	:1
AC Voltage	Vac	110	220		V AC
AC Supply Current	Iac	5A@220V AC			A AC
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

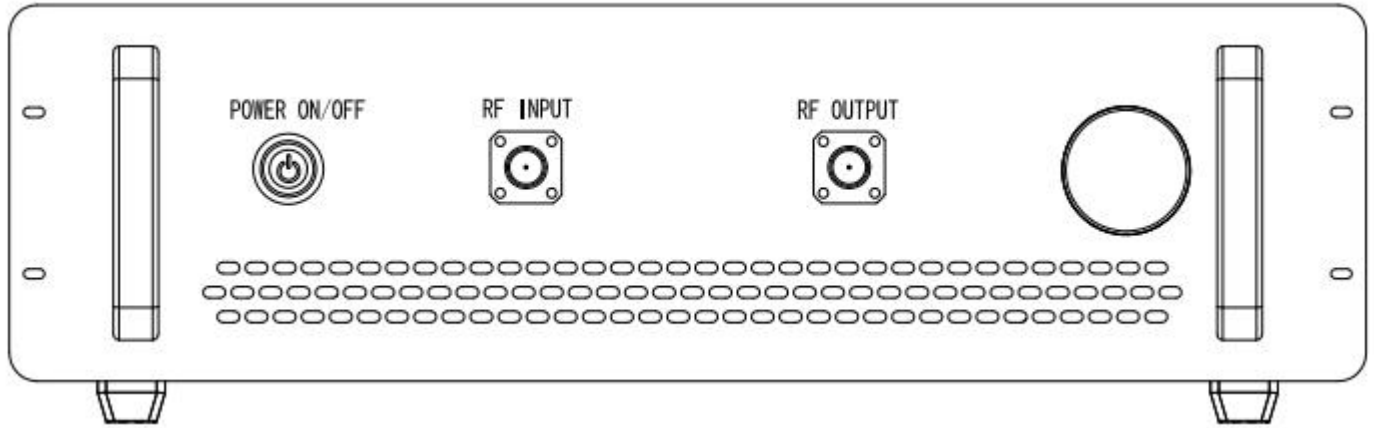
Parameter	Value	Units
Input /Output Connector	N Female/N Female	
Size	3U*500 depth	mm
Weight	10	Kg

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



Key Features:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Parameter	Advantages
Control functions	1, Power setting On/Off 2, ALC automatic level control
Protection functions	1, Over TEM 2, Over voltage 3, Over current protection 4, Over VSWR
Communication functions	RS422/Ethernet
Cooling system	Built in Cooling system, forced air cooling

Environmental Conditions:

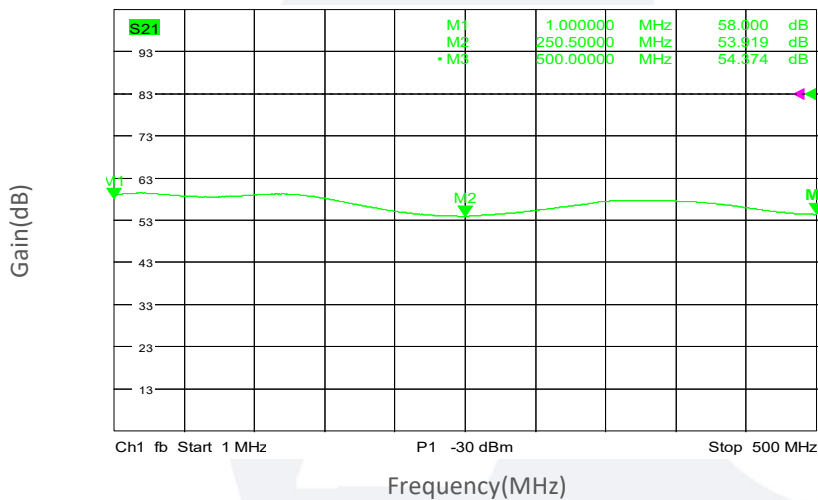
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+50	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30000			feet
Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA1M500M-54-54-BC	Solid State High Power Amplifier Systems 1-500MHz,Gain:54dB,Psat:54 dBm,220V AC,Built in Fan Cooling	Rev.1.0

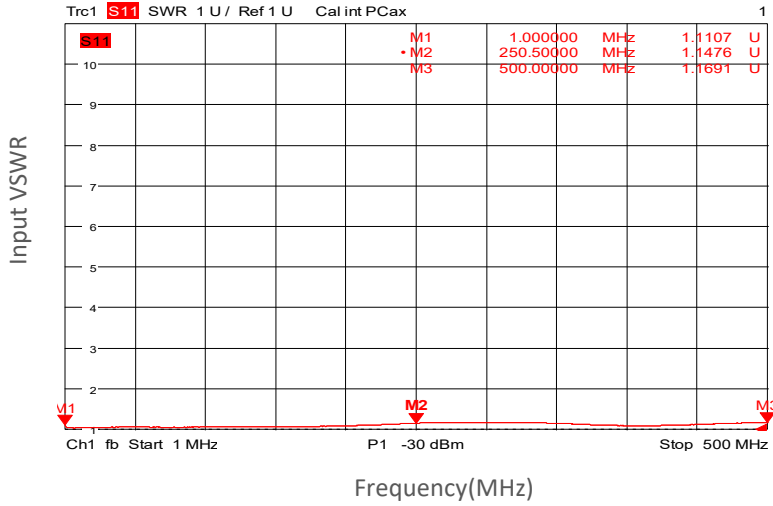
Typical Performance Data:

Gain vs Frequency

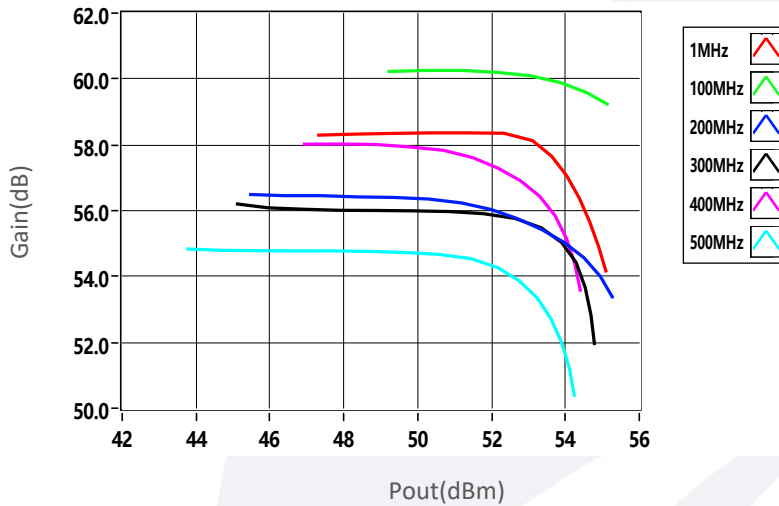


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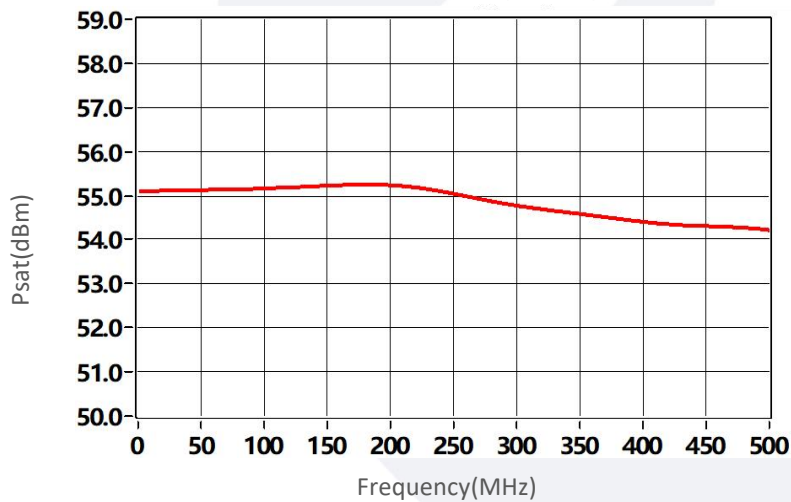
Input VSWR vs Frequency



Gain vs Output Power



Psat vs Frequency



Typical Performance Data:

3rd Harmonics VS Output Power

