

Model: TPA20M500M-60-60-BC
**Solid State High Power Amplifier Systems
 20-500MHz, Gain: 60dB, Psat: 60 dBm, 220V AC**
Feature:

- Wide Band: 20-500MHz
- Gain: 60dB Min
- Psat Output Power: 60dBm Typ
- 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	20-500			MHz
Gain	GP	60	63		dB
Gain flatness	Δ GL		± 2	± 3	dB
Output P1dB	P1dB		57		dBm
Output Psat	Psat	59	60		dBm
Spurious	Spur			-60	dBc
Harmonics	HAM		-15		dBc
Input VSWR	VSWRin		1.5	2.0	:1
AC Voltage	Vac		220		V AC
AC Input Power	Pdiss	5000 Max@60dBm			Watts
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

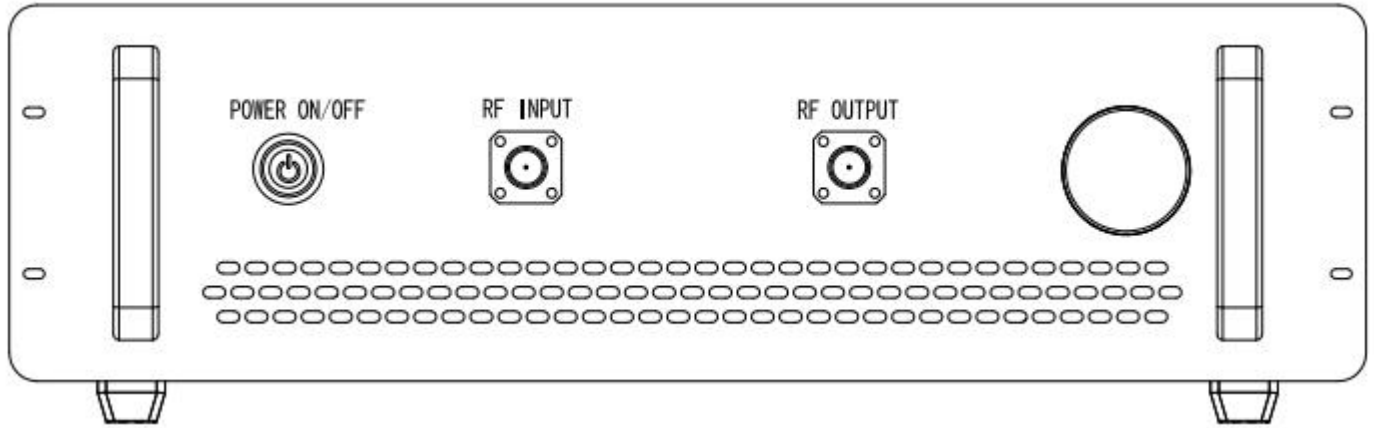
Parameter	Value	Units
Input /Output Connector	N Female/7/16 DIN	
Monitor and control interface	D-SUB 15PIN	
Size	6U Rack Mount Chassis	
Weight	50	Kg

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	0		+50	°C
Non-operating Temperature	-40		+85	°C
Relative humidity		95		%
Altitude	15000			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
TLPA20M500M-60-60-BC	Solid State High Power Amplifier Systems 20-500MHz,Gain:60dB,Psat:60 dBm,220V AC,Built in Fan Cooling	Rev.1.0