

Solid State High Power Amplifier Systems

30-100MHz /53dB Gain/200W Psat/220V AC

Model: TLPA30M100M-53-53-BC

TLPA30M100M-53-53-BC is a solid state high power amplifier systems provides high output power and high gain across the 30 to 100 MHz frequency range. The amplifier features a built-in 220V power supply, making it easy to use in most lab environments. This model features thermal self protection, preventing damage to the amplifier and providing added reliability.

Features:

- Frequency range: 30-100MHz
- Gain:53dB Min
- Psat Output Power:200W Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection
- 50 Ohm Matched Input / Output

Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	30-100			MHz
Power Gain	GP	53	55		dB
Gain flatness	Δ GL		± 2	± 3	dB
Output Psat	Psat	200	250		W
Output P1dB	P1dB		100		W
Spurious	Spur			-60	dBc
Harmonics	HAM		-15		dBc
Input VSWR	VSWRin		1.5	2	:1
AC Voltage	Vac	110	220		V AC
Power Consumption	Pdiss			800	W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

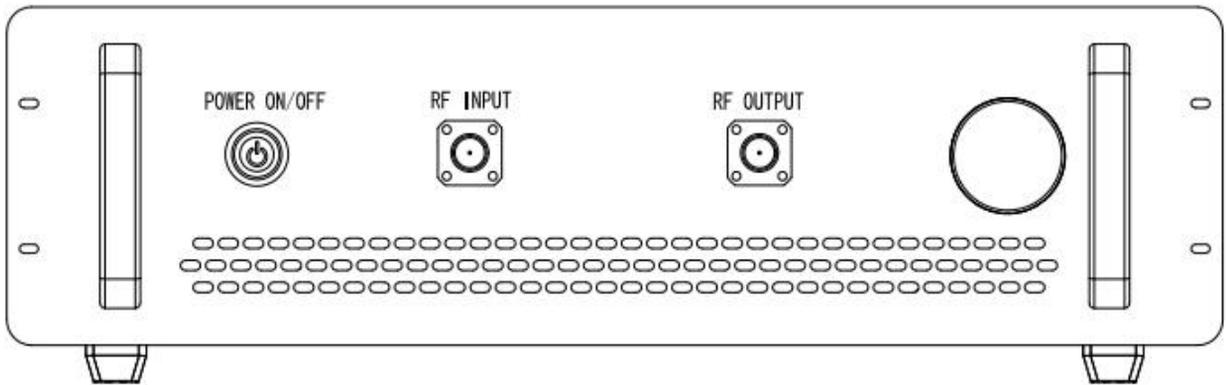
Parameter	Value	Units
Input /Output Connector	N Female/N Female	
Size	482.6*133.2*447	mm
Weight	≤ 25	Kg

Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm



Key Features:

Parameter	Advantages
Control functions	1, Power setting On/Off
Protection functions	1,Over TEM 2,Over voltage 3,Over current 4,Over VSWR
Cooling system	Built in Cooling system,forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+40	°C
Non-operating Temperature*	-30		+50	°C
Relative humidity		95		%
Altitude	10,000			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			

*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

Base Number	Description	Revision
TLPA30M100M-53-53-BC	Solid State High Power Amplifier Systems 30-100MHz, Gain:53dB, Psat:200W, 220V AC, Built in Fan Cooling	Rev.1.1