泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Solid State High Power Amplifier Systems

0.1-400MHz/53dB Gain/200W Psat/220V AC Model: TLPA0.1M400M-53-53-BC

TLPA0.1M400M-53-53-BC is a solid state high power amplifier systems provides high output power and high gain across the 0.1 to 400MHz 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: 0.1-400MHz
- 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		0.1-400		MHz
Power Gain	GP	53			dB
Gain flatness	ΔGL			±3.5	dB
Output P1dB	P1dB	150			dBm
Output Psat	Psat	200			dBm
Spurious	Spur			-50	dBc
Harmonics	HAM			-15	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac		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	
Forward/Reverse Coupling	N Female/N Female	
Control Connector	GPIB/Ethernet	
Size	19 Inch 4U	mm
Weight	≤25	Kg

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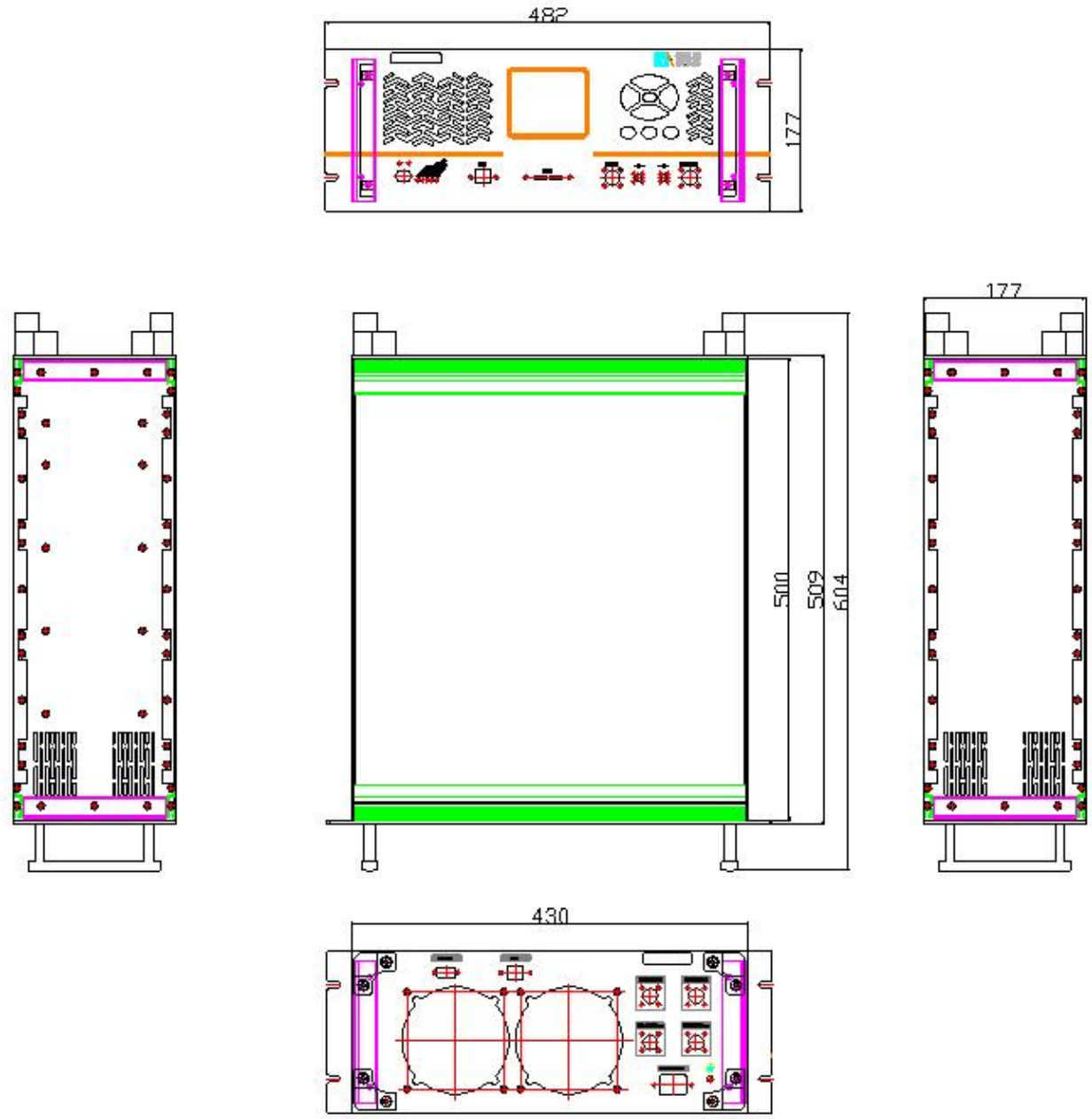
Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm



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Key Features:

Parameter	Advantages
Control functions	1, Power setting On/Off 2,Gain adjustment(additional fees are required)
Protection functions	1,Over TEM (≤60℃) 2,Over voltage 3,Over current 4,Over VSWR (≤5:1) 5,Over excited (<200W)
Remote control	RS422/Ethernet
Cooling system	Built in Cooling system,forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+40	℃
Non-operating Temperature*	-30		+50	℃
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
TLPA0.1M400M-53-53-BC	Solid State High Power Amplifier Systems 0.1-400MHz,Gain:53dB,Psat:200W,220V AC,Built in Fan Cooling	Rev.1.1

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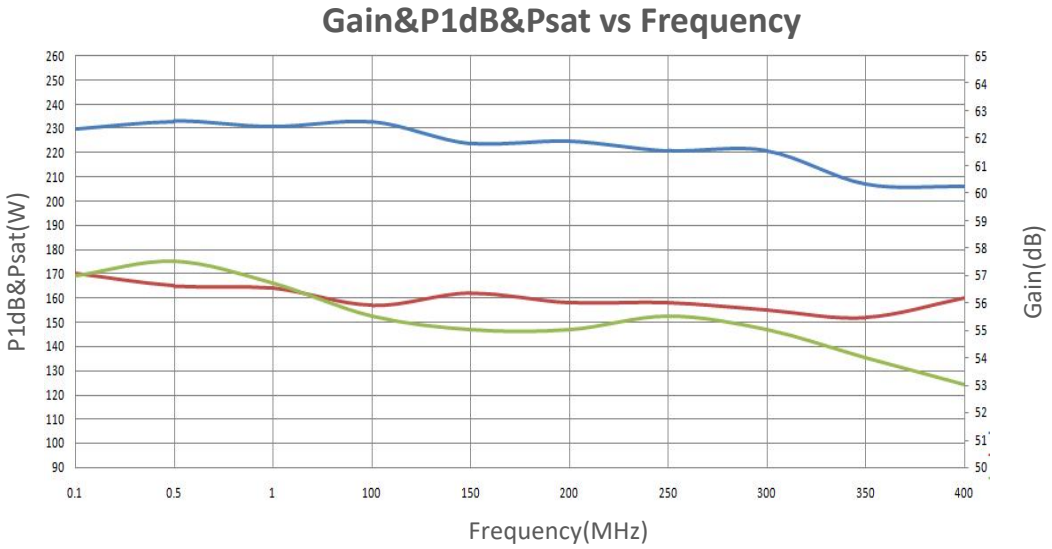
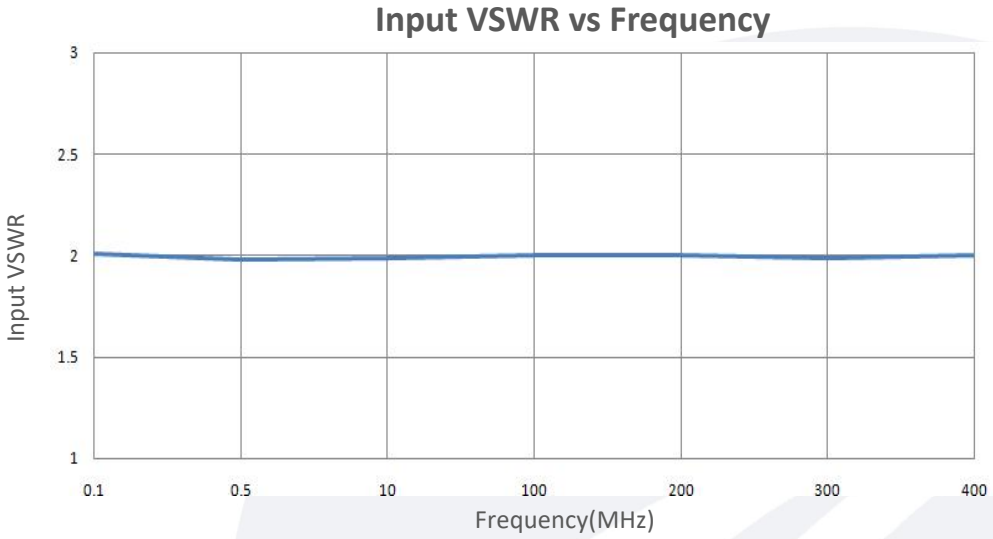
Typical Performance Data:





Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.