



Microwave Town Company, LLC

MTPA10225253532

1000MHz-2500MHz 200Watt Broadband Power Amplifier

Features: High output power, High efficiency, Broad Bandwidth, High reliability

Applications: Test & Measurement, EMC

The MTPA10225253532 is a completely solid state amplifier which features with very high output power, high efficiency and broad instantaneous bandwidth. It uses state-of-art GaN devices and provides high reliability for our customer due to the robustness of Gallium Nitride technology. It also includes the forward and reverse power detection capability. The amplifier is self protected for poor load conditions and will survive even into open or short load. It is well thermally managed with internal forced air cooling system. It has a digital front panel to display the state and condition of the amplifier. The system will operation with AC 220V. Option 101 will also be offered if customer wants to control the unit through GPIB interface.

Those features enable MTPA10225253532 perfectly fit for Test & Measurement and EMC applications. The solid-state amplifier design and modern GaN technology make it ideal to replace the short-life TWT amplifiers.

Test condition: +220VAC, +25° C ambient temperature

Specification	Unit	Min.	Typical	Max.
Frequency	MHz	1000		2500
Gain	dB	50	53	
Gain flatness	+/-dB		3	
Gain variation over temp	+/-dB		2	
Psat	W	200	225	
Efficiency(@Psat)	%		30	
P1dB	W		100	
Load	Ohm			Infinity
Harmonics	dBc		-20	
Spurious	dBc		-60	
IM3 (Total power at 100W)	dBc		-25	
Input VSWR				2:1
Output VSWR			2:1	
Voltage	V(AC)		220	
Current	A		4	
Temperature	°C	0		50
Storage temperature	°C	-40		70
Dimension	Inch		17x17x5	
Weight	Kg		10	
Interface	Input SMA (F), output Type-N (F)			
Option	GPIB (Option 101)			



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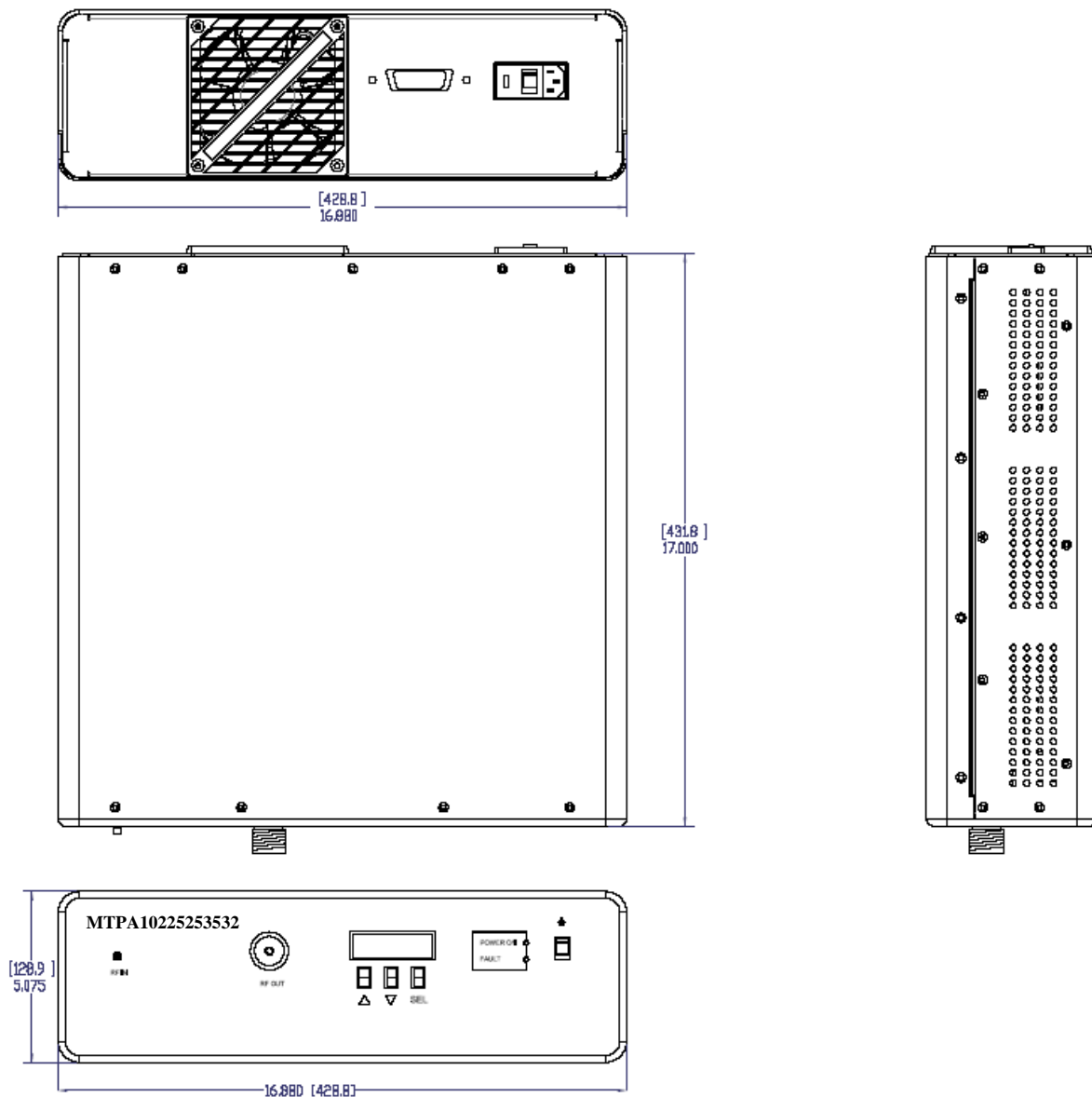
Panel monitor (front panel):

Power indicator, Enable/Disable, Forward/Reverse Power, Temperature alarm, VSWR alarm

Optional GPIB port (rear panel) :

Enable/Disable, Forward/Reverse Power, Temperature alarm, VSWR alarm

Outline:



Unit: Inch (mm)