Microwave Town Company, LLC

MTPA25260247472

2500MHz-6000MHz 50Watt Broadband Power Amplifier

MTPA25260247472 is a air-cooled, broadband, solid state amplifier. This rack mount amplifier based on GaN technology provides high gain, high output power, wide dynamic range, and good linearity. The front panel gain control permits the operator to conveniently set the desired output level. The LCD display shows operate status including rack temperature, current, gain, and etc. Multiple self-protection techniques are implemented such as thermal overload, excessive current flow, Input overdrive, large mismatch, fan mal-function. The status indications are available via the LCD display accordingly. This unit is suitable in EMI/EMC test, satellite communication, RF/MW measurements, and other applications.

- **High Power and Efficiency**
- **High Reliability and Ruggedness**
- **Ultra Broadband**
- **Built-in control, monitoring & protection circuits**
- **GPIB option -101**

ELECTRICAL CHARACTERISTICS @ 220V/110V AC, +25° C, 50Ω

PARAMETER	UNIT	MIN	TYPICAL	MAX
Frequency Response	MHz	2500		6000
Power Gain	dB		47	
Gain Flatness per 40MHz bandwidth	+/-dB		1	
Gain Flatness via Temperature	+/-dB		2	
Saturated Output Power	dBm		47	
Efficiency @ Sat Output Power	%		25	
Output Power @ 1dB gain compression point	dBm		43	
Harmonic Distortion	dBc		-20	
Spurious Signals	dBc		-60	
load	ohm			Infinity
OIP3	dBm		50	
Input VSWR			1.5：1	2：1
Output VSWR			2：1	

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ENVIRONMENTAL SPECIFICATIONS (DESIGN TO MEET)

PARAMETER	UNIT	MIN	TYPICAL	MAX
Voltage	V（AC）		220	
Current	A		2	
Operating Temperature	°C	0		50
Non-Operating Temperature	°C	-40		70

MECHANICAL SPECIFICATIONS

PARAMETER	UNIT	MIN	TYPICAL	MAX
Dimensions W x H x D	Inch		25.00X19.00X6.00	
Weight	KG		20	
RF Input & Output		SMA(F), SMA(F)		
Option		GPIB(101)		

PROTECTIONS

PARAMETER	UNIT	MIN	TYPICAL	MAX
Input Overdrive	dBm		+5	
Load Mismatch Tolerance			5:1 @ all phase & amplitude	
Thermal Overload	°C		85	

OUTLINE DRAWINGS