



# Microwave Town Company, LLC

## MTPA50125235501

### 500MHz-2500MHz 100Watt Broadband Power Amplifier

The MTPA50125235501 is a completely solid state microwave power amplifier module which features high efficiency, high output power and wide dynamic range. It uses advanced microwave device technology and provides high reliability and ruggedness product for our customer. MTPA50125235501 has the function of over current and over temperature protection to guarantee the safety of working in various harsh conditions.

- 500MHz~2500MHz ultra-broadband
- Psat:100W
- High efficiency, High reliability and ruggedness
- Good linearity, Low distortion
- Applications: Test & Measurement, Broadcasting, Communication, etc



#### ELECTRICAL CHARACTERISTICS @ 28V AC +25° C 50Ω

PARAMETER	UNIT	MIN	TYPICAL	MAX
Frequency Response	MHz	500		2500
Power Gain	dB	35	45	
Gain Flatness per 40 MHz bandwidth	+/-dB		1	
Gain Flatness via Temperature	+/-dB		2	
Saturated Output Power	dBm		50	
Efficiency @ Sat Output Power	%		35	
Output Power @ 1dB gain compression point	dBm		46	
Harmonic Distortion	dBc		-20	
Spurious Signals	dBc		-80	
OIP3	dBm		53	
Input For Rated Output Power	dBm		+10	
Input VSWR				2:1
Output VSWR			2:1	

#### ENVIRONMENTAL SPECIFICATIONS (DESIGN TO MEET)

PARAMETER	UNIT	MIN	TYPICAL	MAX
Voltage	V (AC)		30	32
Current	A		3.5	
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		7.10X4.10X0.95	
Weight	Kg		1	
RF Input & Output			SMA(F), SMA(F)	



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## OUTLINE DRAWINGS

