



# Microwave Town Company, LLC

MTPA60280250471

6000MHz-8000MHz 50Watt Broadband Power Amplifier

The MTPA60280250471 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. MTPA60280250471 has the function of over current and over temperature protection to guarantee the safety of working in various harsh conditions.

- 6GHz~8GHz ultra-broadband
- Psat:50W
- 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	6000		8000
Power Gain	dB		50	
Gain Flatness per 40 MHz 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	
OIP3	dBm		50	
Input For Rated Output Power	dBm		+5	
Input VSWR				2:1
Output VSWR			2:1	

## ENVIRONMENTAL SPECIFICATIONS (DESIGN TO MEET)

PARAMETER	UNIT	MIN	TYPICAL	MAX
Voltage	V (AC)		28	32
Current	A		3	7
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		6.60X5.80X1.00	
Weight	Kg		1	
RF Input & Output			SMA(F), SMA(F)	

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### OUTLINE DRAWINGS

