



Microwave Town Company, LLC

MTPA50120235471

500MHz-2000MHz 50Watt Broadband Power Amplifier

The MTPA50120235471 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. MTPA50120235471 has the function of over current and over temperature protection to guarantee the safety of working in various harsh conditions.



- 500MHz~2GHz 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	500		2000
Power Gain	dB	35	40	
Gain Flatness per 40 MHz bandwidth	+/-dB		2	
Gain Flatness via Temperature	+/-dB		2	
Saturated Output Power	dBm		47	
Efficiency @ Sat Output Power	%		30	
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			20
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	
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

