



Microwave Town Company, LLC

MTPA30051150501

30MHz-512MHz 100Watt Broadband Power Amplifier

The MTPA30051150501 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. MTPA30051150501 has the function of over current and over temperature protection to guarantee the safety of working in various harsh conditions.

- 30MHz~512MHz ultra-broadband
- P_{1sat}: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	30		512
Power Gain	dB		50	
Gain Flatness per 40 MHz bandwidth	+/-dB		1	
Gain Flatness via Temperature	+/-dB		2	
Saturated Output Power	dBm	50	52	
Efficiency @ Sat Output Power	%		25	
Output Power @ 1dB gain compression point	dBm	49	50	
Harmonic Distortion	dBc		-20	
Spurious Signals	dBc		-60	
IM3@total power 100W	dBc		-25	
Input For Rated Output Power	dBm		+5	
Input VSWR			2: 1	
Output VSWR			3: 1	

ENVIRONMENTAL SPECIFICATIONS (DESIGN TO MEET)

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



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OUTLINE DRAWINGS

