



# Microwave Town Company, LLC

## MTPA80212333431

### 8000MHz-12000MHz 20Watt Broadband Power Amplifier

The MTPA80212333431 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. MTPA80212333431 has the function of over current and over temperature protection to guarantee the safety of working in various harsh conditions.

- 800MHz~12GHz ultra-broadband
- P1sat:20W
- High efficiency, High reliability and ruggedness
- Good linearity, Low distortion
- Applications: Test & Measurement, Communication, etc



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

PARAMETER	UNIT	MIN	TYPICAL	MAX
Frequency Response	MHz	8000		12000
Power Gain	dB		33	
Gain Flatness per 40 MHz bandwidth	+/-dB		1	
Gain Flatness via Temperature	+/-dB		2	
Saturated Output Power	dBm		43	
Efficiency @ Sat Output Power	%		25	
Output Power @ 1dB gain compression point	dBm		40	
Harmonic Distortion	dBc		-20	
Spurious Signals	dBc		-60	
IM3@total power 100W	dBc		47	
Input For Rated Output Power	dBm		15	
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		1.5	
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**

