



# Microwave Town Company, LLC

## MTPA20218346461

### 2000MHz-18000MHz 40Watt Broadband Power Amplifier

MTPA20218346461 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. This unit is suitable in EMI/EMC test, satellite communication, RF/MW measurements, and other applications.

- High Power and Efficiency
- High Reliability and Ruggedness
- Ultra Broadband
- Built-in control, monitoring & protection circuits

#### ELECTRICAL CHARACTERISTICS @ 48VDC, +25° C, 50Ω

PARAMETER	UNIT	MIN	TYPICAL	MAX
Frequency Response	MHz	2000		18000
Power Gain	dB	43	46	
Gain Flatness	+/-dB		5	
Gain Flatness via Temperature	+/-dB		2	
Saturated Output Power	dBm	45	46	
Efficiency @ P1dB	%		20	
Spurious Signals	dBc		-60	
Harmonic Distortion	dBc		-15	
Output VSWR				2: 1
Input VSWR				2: 1

#### ENVIRONMENTAL SPECIFICATIONS (DESIGN TO MEET)

PARAMETER	UNIT	MIN	TYPICAL	MAX
Voltage	V (AC)		48	
Current	A		10	
Operating Temperature	°C	0		50
Non-Operating Temperature	°C	-20		70

#### MECHANICAL SPECIFICATIONS

PARAMETER	UNIT	MIN	TYPICAL	MAX
Dimensions W x H x D	mm		300X85X400	
Weight	KG		10	
RF Input & Output			SMA(F), SMA(F)	

#### PROTECTIONS

PARAMETER	UNIT	MIN	TYPICAL	MAX
Input Overdrive	dBm			+10
Load Mismatch Tolerance		Short		open
Thermal Overload	°C		85	

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