



Microwave Town Company, LLC

MTPA20218335301

2000MHz-18000MHz 1Watt Broadband Power Amplifier

The MTPA20218335301 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. MTPA20218335301 has the function of over current and over temperature protection to guarantee the safety of working in various harsh conditions.

- .2GHz~18GHz ultra-broadband
- Psat:1W
- 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	2000		18000
Power Gain	dB		35	
Gain Flatness per 40 MHz bandwidth	+/-dB		1.5	
Gain Flatness via Temperature	+/-dB		2	
Saturated Output Power	dBm		32	33
Efficiency @ Sat Output Power	%		20	
Output Power @ 1dB gain compression point	dBm	30	31	
Harmonic Distortion	dBc		-25	
Spurious Signals	dBc		-60	
IM3@P1dB	dBc		-20	
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)		15	
Current	A		1.8	
Operating Temperature	°C	-10		50
Non-Operating Temperature	°C	-40		70

MECHANICAL SPECIFICATIONS

PARAMETER	UNIT	MIN	TYPICAL	MAX
Dimensions W x H x D	Inch		3.74X2.36X0.83	
Weight	Kg		0.5	
RF Input & Output			SMA(F), SMA(F)	



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OUTLINE DRAWINGS

