

Preliminary

MTPA20260250471

Broadband Power Amplifier

2-6GHz 50W



MODEL DESCRIPTION

MTPA20260250471 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.

FEATURE

2-6GHz ultra-broadband

Psat: 50W

High efficiency, High reliability and ruggedness

Good linearity, Low distortion

Applications: Test& Measurement, Broadcasting, Communication etc.

GENERAL SPECIFICATION

Parameter	Unit	Min.	Typical	Max.
Frequency	GHz	2		6
Power Gain (@Psat)	dB		50	
Gain Flatness	+/-dB		3	
Gain Flatness over temp.	+/-dB		3	
Psat	dBm		47	
INPUT Return Loss	dB			-10
OUTPUT Return Loss	dB		-10	
Maximum input power	dBm		10	
Harmonic	dBc		-15	
Spur	dBc		-60	

ENVIRONMENTAL SPECIFICATIONS:

Parameter	Unit	Min	Typical	Max
Voltage	V(DC)	27	28	29
Current	A		7	
Operating Temperature	°C	-20		65
Non-Operating Temperature	°C	-40		85

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MECHANICAL SPECIFICATIONS:

Parameter	Unit	Min	Typical	Max
Dimensions WxHxD	mm		150x280x30	
Weight	Kg		2.5	
RF Input&Output		SMA-F		

OPTIONS:

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- a. Independent Power Supply (110-220VAC to 28VDC)
 - b. Full temp operating range (-40 °C~+85°C)