

Preliminary

MTPA70127250431

Broadband Power Amplifier

0.7-2.7GHz 20W



MODEL DESCRIPTION

MTPA70127250431 is a complete solid state microwave power amplifier module that features high efficiency, high output power and wide dynamic range. It is based on advanced microwave device technology and provides long-term reliability and high ruggedness.

FEATURE

0.7-2.7GHz ultra-broadband

Psat: 20W

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	0.7		2.7
Power Gain (@Psat)	dB	-	50	-
Gain Adjustment	dB	-	20	-
Gain Flatness	+/-dB		2.5	
Psat	dBm	43	-	-
INPUT Return Loss	dB	-	-	-10
OUTPUT Return Loss	dB	-	-	-10
Maximum input power	dBm	-	-	-5
Harmonic	dBc	-	-15	-
Spur	dBc	-	-60	-

ENVIRONMENTAL SPECIFICATIONS:

Parameter	Unit	Min	Typical	Max
Voltage	V(DC)	-	28	-
Current	A	-	2	-
Operating Temperature	°C	0	-	50
Non-Operating Temperature	°C	-20	-	65

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MECHANICAL SPECIFICATIONS:

Parameter	Unit	Min	Typical	Max
Dimensions LxWxH	inch		3.5x7.85x0.85	
Weight	Kg	-	1	-
RF Input&Output		SMA-F		

TEST DATA

