



**Model – MB020500M374028**

20- 500 MHz

5 watts

Linear power amplifier

## Solid State Wideband Power Amplifier

### General Description

This is a broadband power amplifier designed for Pulsed signals. Using advanced high power density LDMOS and GaN semiconductor devices, these high-performance amplifiers achieve high efficiency, high gain, and wide dynamic range. Like all Elite RF amplifiers, the product comes with an industry leading **5-year warranty**.

#### Features

20- 500 MHz  
5 watts  
40 dB gain  
Class A  
28 VDC

#### Indicator options

DC Power  
Temp Fault

#### Protections

Thermal Overload  
Over Voltage  
Reverse Polarity

Rev 1 - 11/1/18

Specifications subject to change, consult sales for latest information

### ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	20		500	MHz
Output Power CW	Psat		10		Watt
Output Power P1dB	P1 dB		5		Watt
Duty Cycle	DC		100		%
Gain Flatness at Psat	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		-
IMD	IP3		45		dBm
Small Signal Gain Flatness	Delta Gp 2		+/- 3.0		dB
Harmonics at 5 Watts	H		-15		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	27	28	29	VDC
Average Current no RF	Current		1		Amps
Class of Operation	C		A		Class
Noise Figure	NF		N/A		dB
Max Load VSWR	Ld		3:1		VSWR
Temperature Shutdown	Ts		85 deg. C		Case temp.

### ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Tc	-20		+70	Deg C
Storage Temperature	Tstg	-55		+100	Deg C
Relative Humidity (non-condensing)	RH			95	%
Altitude	ALT			10,000	Feet
Vibration/Shock	VI /SH		Normal Truck Transport		

### MECHANICAL CHARACTERISTICS

Dimensions	Symbol	Min	Typ	Max	Unit
Dimensions (rack mount)	Dim		6" x 3" x 1"		Inches
Weight	Wt.		2		lbs.
Connectors	RF Conn		SMA		-
DC Connection	Dc Conn		Feed-thru		-
Cooling	Th		Heatsink required		-

Elite RF LLC

2155 Stonington Ave, Suite 217, Hoffman Estates, IL. 60169

Call us for customer service/technical support at: 847-592-6350

Order or email us on-line at [www.eliterf.com](http://www.eliterf.com)