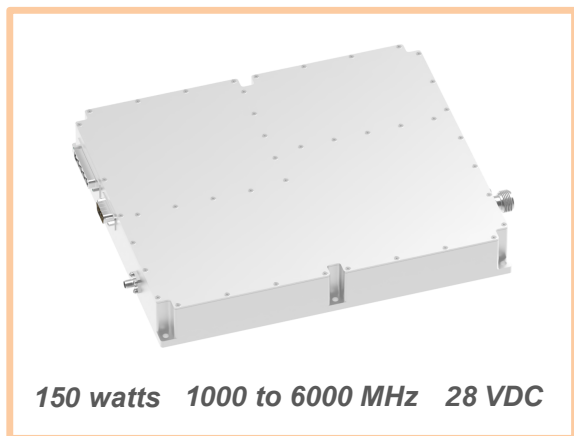


LINEAR WIDEBAND POWER AMPLIFIER

Model – MB1.06.0G525228



General Description:

Elite RF's MB Series amplifier is a wideband power amplifier designed for CW signals fabricated on GaN on SiC process and can operate up to **6.0 GHz**. These amplifiers offer high power density, low thermal resistance, and wideband performance. They can be widely used for military and commercial applications.

Like all Elite RF amplifiers, this product comes with an industry leading warranty.

Features

Wide Freq. Range
High Output Power
High Gain

Protections

Over Heat
Over Current

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	1000		6000	MHz
Output Power CW	Psat		150		Watt
Output Power at 1 dB Compression Small	P1dB		80		Watt
Signal Gain	Gp	52			dB
Gain Flatness	Delta Gp 1		+/- 4		dB
Input VSWR at 50 Ohm	S11			2:1	Ratio
Harmonics	H		-15		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC		2		VDC
Class of Operation	C		AB		Class
Power Consumption at rated output	P			900	Watt
Input Power	Pin			5	dBm

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Tc	0		+40	Deg. C
Storage Temperature	Tstg	-20		+75	Deg. C
Relative Humidity (non-condensing)	RH	5		95	%
Vibration/Shock	VI /SH		Normal Truck Transport		

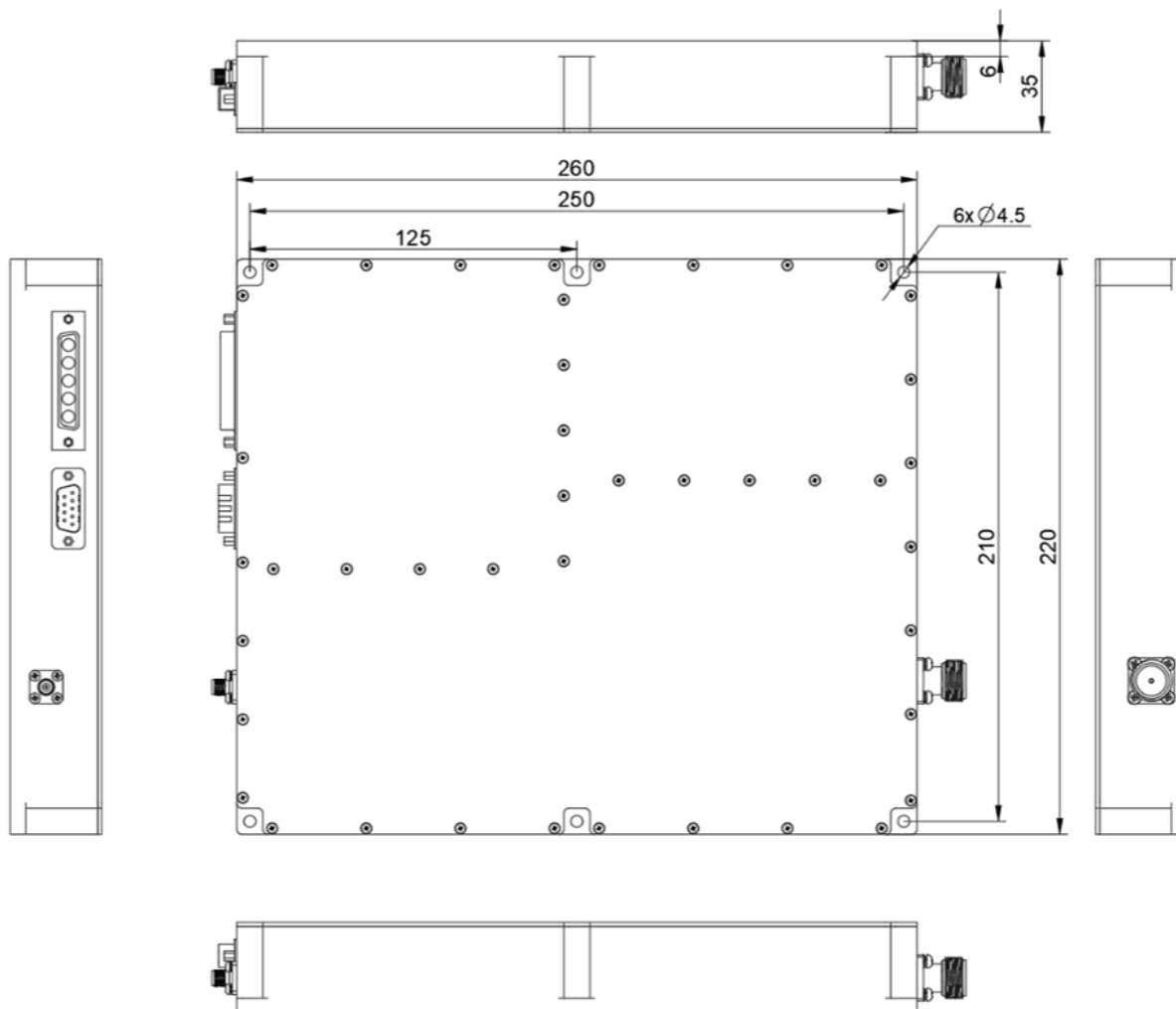
MECHANICAL CHARACTERISTICS

Parameter	Symbol	Typ	Notes	Unit
Dimensions	Dim	10.24 × 8.66 × 1.38		Inches
Weight	Wt.	3.5		kg
Connectors In/Out	RF Conn	SMA-Female / N-Female		-
Cooling	Th	Fan Cooling	Need to adapt heat sink	-
Power/Control Supply Connector	Pwr Conn	5W5- Male/ D-SUB9	Customizable for other interface forms	-
Control mode	Ctrl	EN +5V		-

OPTIONS

Parameter	Add suffix to part number
Heat sink and fans	- H

Mechanical Drawings



Elite RF LLC

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Order or email us on-line at www.eliterfllc.com

Rev 2 03/23/2025: Specifications
subject to change, consult sales
for latest information