

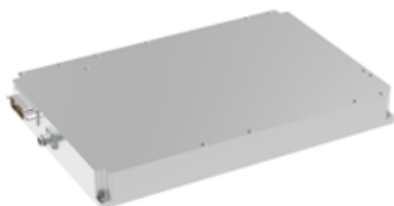
LINEAR WIDEBAND POWER AMPLIFIER

Model – MB2.08.0G474728

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 **8.0 GHz**. These amplifiers offer high power density, decade bandwidth performance, 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**.



50 watts 2000 to 8000 MHz 28 VDC

Features

Wide Freq. Range
High Output Power
High Gain
High Reverse Isolation
Built-in Protection

Indicator options

DC Power
Temp Fault

Protections

Over Heat
Over Current

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	2000		8000	MHz
Output Power CW	Psat		50		Watt
Output Power at 1 dB Compression	P1dB		-		Watt
Small Signal Gain	Gp		47		dB
Gain Flatness	Delta Gp 1		+/- 4		dB
Input VSWR	S11			2:1	Ratio
IMD @ 2 GHz @ 1 watt/tone / 1 MHz	IP3		-		dBm
spacing Harmonics	H		-15		dBc
Spurious Signals	Spur			-60	dBc
Operating Voltage	VDC		28		VDC
Power Consumption	PC			450	Watt
Class of Operation	C		AB		Class
Input Power	IP		≤5		dBm

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Tc	-10		+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	Min	Typ	Max	Unit
Dimensions	Dim		9.0 x 6.0 x 1.0		Inches
Weight	Wt.			2	kg
Connectors In/Out	RF Conn		SMA-F/SMA-F		-
Cooling	Th		Fan Cooling (-H option)		-
Control interface	Th		7W2- Male		-

Elite RF LLC

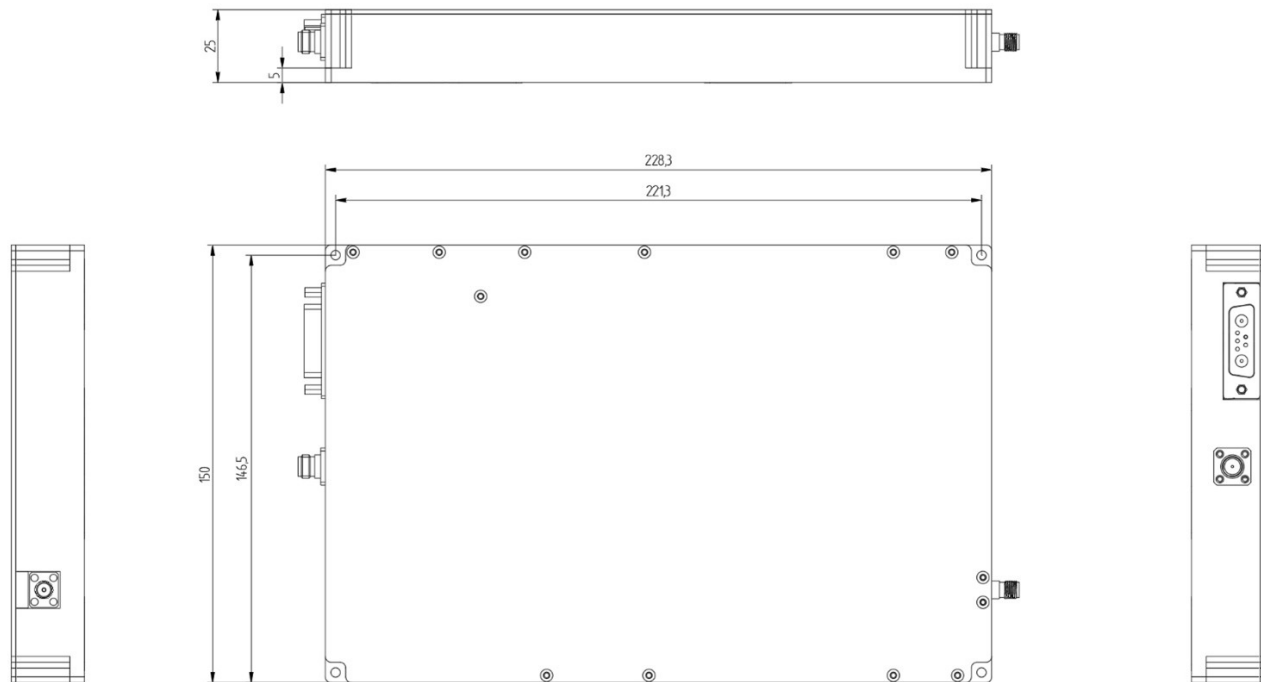
1700 Tower Drive, Hanover Park, IL. 60133

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

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

Mechanical Drawings

Just for Reference



Elite RF LLC

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