

RF POWER AMPLIFIER MODULE

Model – MB.706.0G474728



50 watts 700MHz - 6000MHz CW Mode

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, 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.

Features

Wide Freq. Range
High Output Power
High Gain
High Reverse Isolation

Protections

Over Heat
Over Current

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	700		6000	MHz
Output Power CW	Psat	50			Watt
Output Power at 1 dB Compression	P1dB		44		Watt
Gain	Gp	47			dB
Gain Flatness	Delta Gp 1		+/- 3		dB
Input VSWR	S11			2:1	Ratio
Harmonics	H		-15		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VAC		28		Volts
Power Consumption	P			305	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		

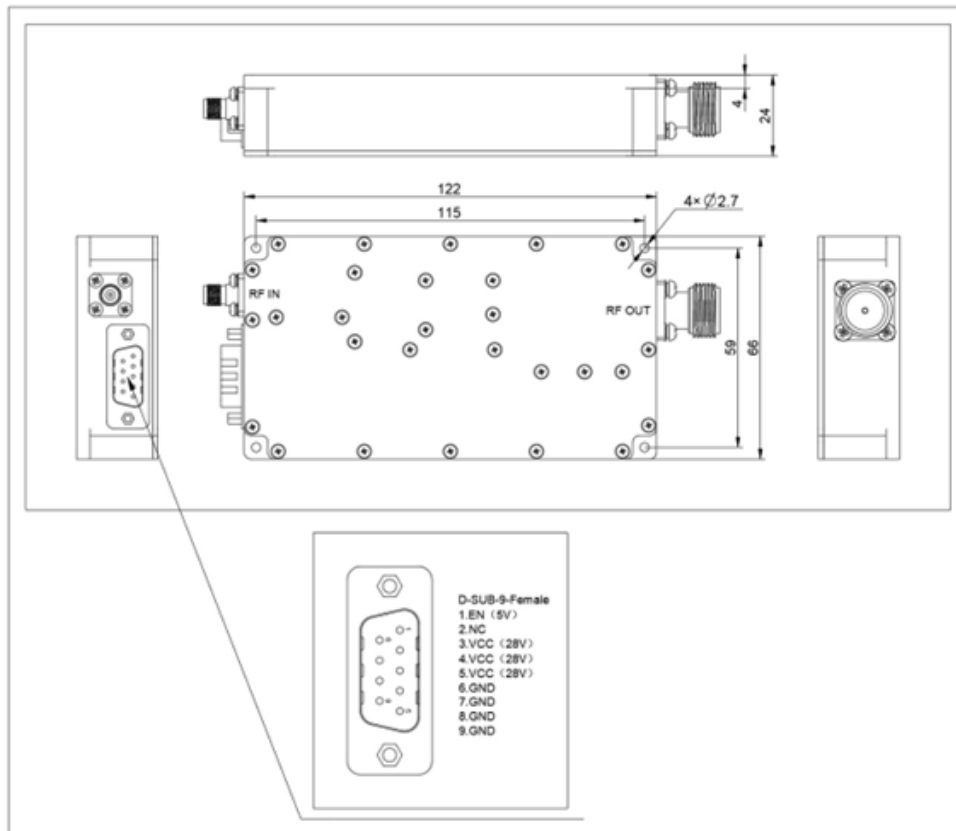
MECHANICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		4.8 x 2.5 x 1.0		Inch
Weight	Wt.			1	kg
Connectors In/Out	RF Conn		SMA-Female / N-Female		-
Cooling	Th		Fan Cooling (Need to adapt heat sink)		-

Other Specifications

Parameter	Available
Power/Control Supply Connector	7W2- Male
Control mode	EN +5V

Mechanical Drawings



Elite RF LLC

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Specifications subject to change, consult sales for latest information