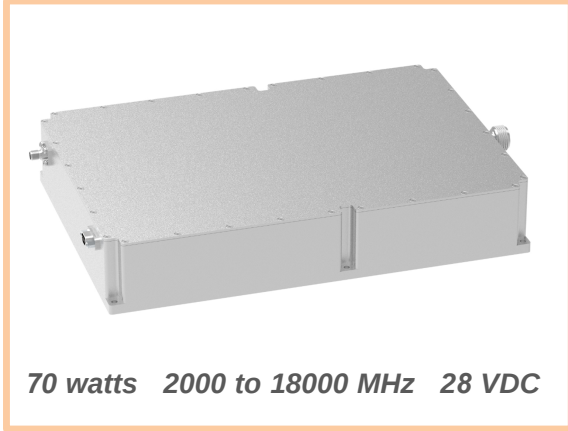


LINEAR WIDEBAND POWER AMPLIFIER

Model – MB2.0018G484828



General Description:

Elite RF's MB Series amplifier is a wideband power amplifier designed for CW/Pulsed signals fabricated on GaN on SiC process and can operate up to **18.0 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	2000		18000	MHz
Output Power CW	Psat	48.5			dBm
Output Power at 1 dB Compression Small	P1dB		43		dBm
Signal Gain	Gp	49			dB
Gain Flatness	Delta Gp 1		+/- 4		dB
Input VSWR at 50 Ohm	S11			2:1	Ratio
Harmonics	H		-15		dBc
Spurious Signals	Spur		-55		dBc
Operating Voltage	VDC		28		VDC
Class of Operation	C		AB		Class
Power Consumption at rated output	P			750	VA
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		

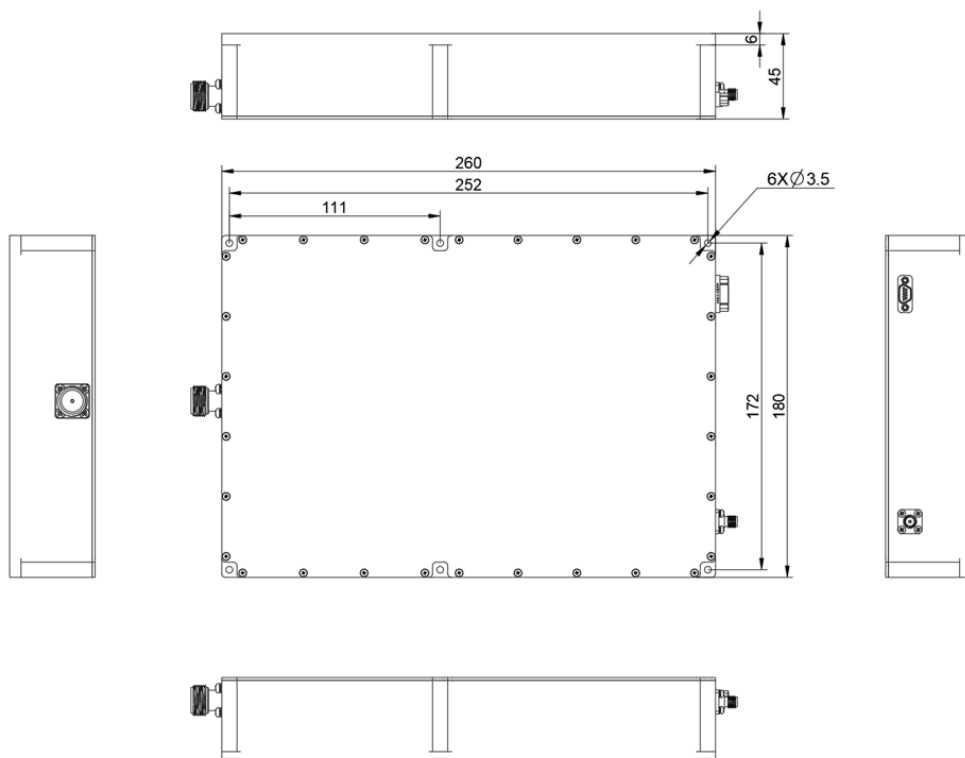
MECHANICAL CHARACTERISTICS

Parameter	Symbol	Typ	Notes	Unit
Dimensions	Dim	10.23 x 7.0 x 1.8		Inches
Weight	Wt.	4		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	J30J-9TJ	Customizable for other interface forms	-
Control mode	Ctrl	EN +5V		-

OPTIONS

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

Mechanical Drawings



Connector Definition

Connector wiring definition			
Connector type: J30J-9TNJ-J			
NO	PIN	DEFINITION	
①	1、2、3	VCC +28V @15.5A Max.	
②	4、5、6	GND	
③	7	EN +5V	
④	8	GND	
⑤	9	NC	

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