LINEAR WIDEBAND POWER AMPLIFIER



Model - MB.026.0G333228



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 **3-year warranty**.

Features	Indicator options	Protections		
Wide Freq. Range	DC Power	Thermal Overload		
High Output Power	Temp Fault	Over Voltage		
High Gain		Reverse Polarity		
High Reverse Isolation				
Built-in Protection				
Enable/Disable input (gro	und to disable)			

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Тур	Max	Unit
Frequency Range	BW	20		6000	MHz
Output Power CW	Psat		2		Watt
Output Power at 1 dB Compression	P1dB		1		Watt
Small Signal Gain	Gp		32		dB
Gain Flatness	Delta Gp 1		+/- 3		dB
Input VSWR	S11		2:1		Ratio
IMD @ 2 GHz @ .1 watt/tone / 1 MHz spacing	IP3		37		dBm
Harmonics	Н		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	27	28	29	VDC
Current at 2 watts "0.2 amps idle current"	Current		0.5		Amps
Class of Operation	С		AB		Class
Noise Figure	NF		5		dB
Large Signal Gain	Lsg		26		dB
Max Load VSWR @ 2 Watts	ML	<u> </u>	6:1		Ratio

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Тур	Max	Unit
Operating Case Temperature	Tc	-20		+60	Deg. C
Storage Temperature	Tstg	-40		+85	Deg. C
Relative Humidity (non-condensing)	RH			95	%
Altitude	ALT			10,000	Feet
Vibration/Shock	VI /SH		Normal Truck Transport		

MECHANICAL CHARACTERISTICS

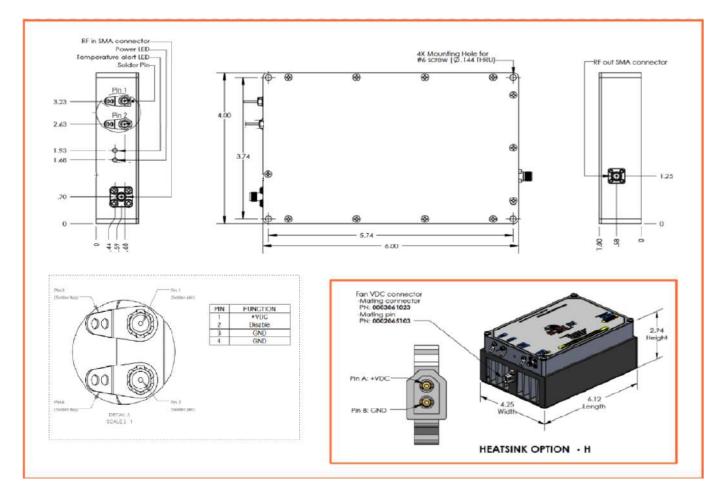
Parameter	Symbol	Min	Тур	Max	Unit
Dimensions	Dim		6.0 x 4.0 x 1.0		Inches
Weight	Wt.		1		lbs.
Connectors In/Out	RF Conn		SMA/SMA		-
Cooling	Th		Heat sink required		-

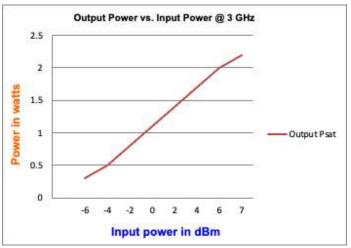
OPTIONS

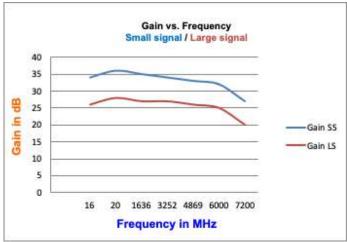
Parameter	Add suffix to part number
Heat sink and fans	- H
Isolator with forward and reverse voltage outputs	N/A
TTL Input Trigger	- T



Mechanical Drawings









Elite RF LLC

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Call us for customer service/technical support at: 847-592-6350 Order or
email us on-line at www.eliterf.com

Rev 3 5/08/2023:

Specifications subject to change, consult sales for latest information

Product Compliance:

ECCN: 3A001.b.2.a.4 USHTS: 8542330001