

LINEAR WIDEBAND POWER AMPLIFIER



Model – MB320360M444050

General Description:

Elite RF's MB Series amplifier is a wideband power amplifier designed for CW/Pulse signals fabricated on GaN on SiC process and can operate up to **360 MHz**. 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.



25 watts 320 to 360 MHz 50 VDC

Features

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

Indicator options

DC Power
Temp Fault

Protections

Thermal Overload
Over Voltage
Reverse Polarity

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	320		360	MHz
Output Power CW	Psat		25		Watt
Output Power at 1 dB Compression	P1dB		10		Watt
Small Signal Gain	Gp		42		dB
Gain Flatness	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		Ratio
IMD @ 0.5 watt/tone @ 1 MHz spacing	IP3		48		dBm
Harmonics	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	49	50	51	VDC
Current at 25 watts	Current		2		Amps
Class of Operation	C		AB		Class
Noise Figure	NF		7		dB
Large Signal Gain	Lsg		40		dB
Max Load VSWR @ 25 Watts	ML		6:1		Ratio

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	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

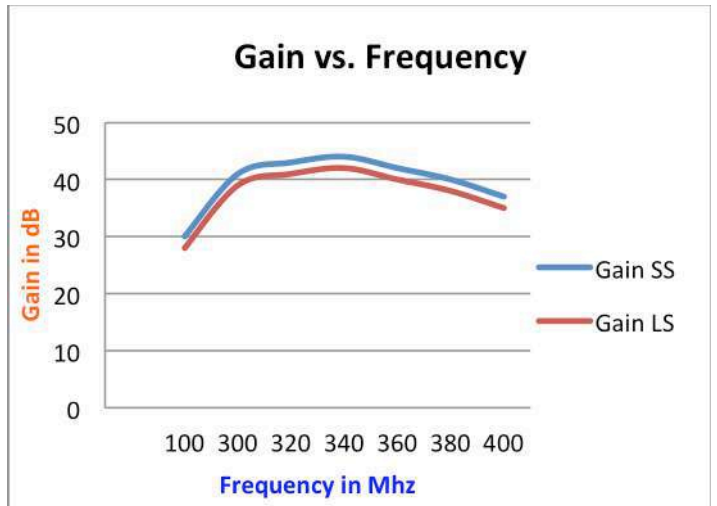
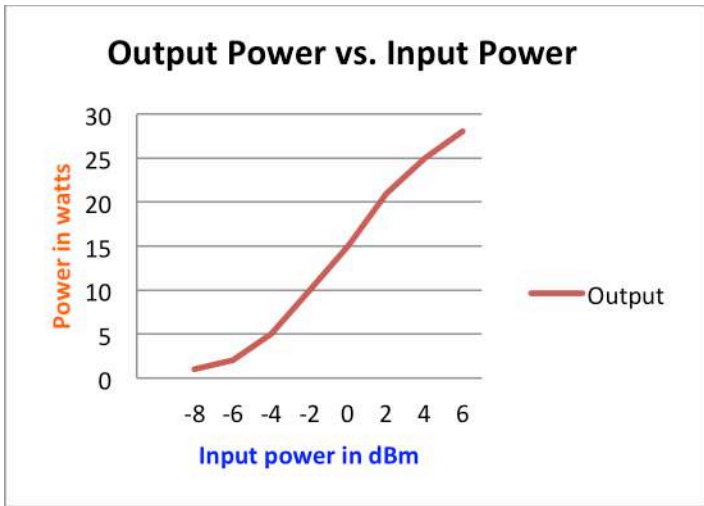
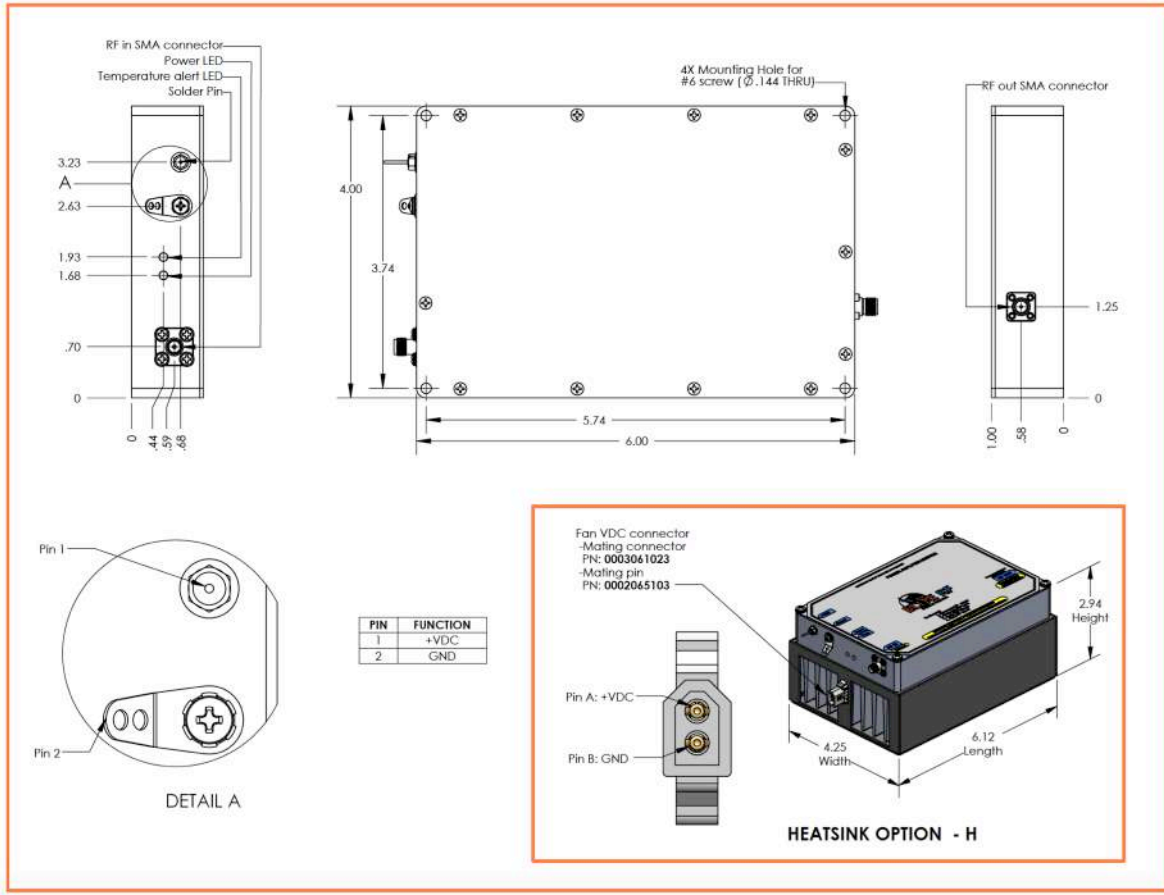
MECHANICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	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	-N/A
Disable/Enable input	- E
D-Sub input connector	- D

Mechanical Drawings



9117F: 007
 F1 EEA1, A1 O1 E1 a [c' A' Ua] E1 S1 E1 H1 E1 W1 O1 E
 Ôa1 A1 • A1 i1 &1 • q1 { 1' A1 i1 ç1 A1 E1 D1 @1 B1 e1 A1 }1]1 [1 o1 a1 i1 i1 E1 J1 C1 E1 H1 E
 Ô1 a1 k1 a1 ç1 O1 1' a1 i1 E1 { 1' A1 1' a1 k1 }1 , 1' E1 j1 a1 i1 H1 E1 {