

# LINEAR WIDEBAND POWER AMPLIFIER

**Model – AA020600M3740AC-4**

## General Description:

Elite RF's AA Series amplifier is a wideband power amplifier designed for CW signals fabricated on LDMOS process and can operate up to **600 MHz**. These amplifiers offer high power density, low thermal resistance, and wideband performance. They can be widely used for military and commercial applications. This system has four independent amplifiers in one unit.

Like all Elite RF amplifiers, this product comes with an industry leading **3-year warranty**.

### Features

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

### Protections

Thermal Overload  
Over Voltage

**5 watts 20 to 600 MHz 100- 240 VAC  
4 channels**

## ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	20		600	MHz
Output Power CW	Psat		10		Watt
Output Power at 1 dB Compression	P1dB		5		Watt
Small Signal Gain	Gp		40		dB
Gain Flatness	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		Ratio
IMD @ 250 MHz @ 1 watt/tone / 1 MHz spacing	IP3		47		dBm
Harmonics	H		-20		dBc
Spurious Signals	Spur		-50		dBc
Operating Voltage	Opv	100	120	240	VAC
AC Power at 5 watts per channel	Pd		300		Watt
Class of Operation	C		A		Class
Noise Figure	NF		3		dB
Large Signal Gain	Lsg		39		dB
Max Load VSWR @ 5 Watts	ML		6:1		Ratio

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Tc	0		+50	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		

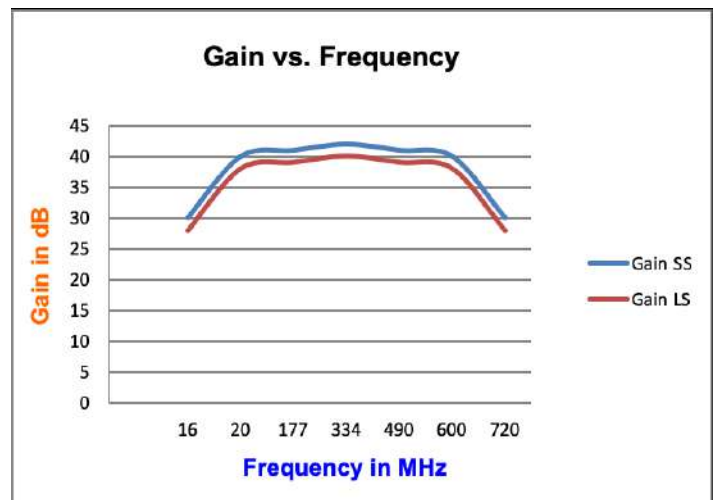
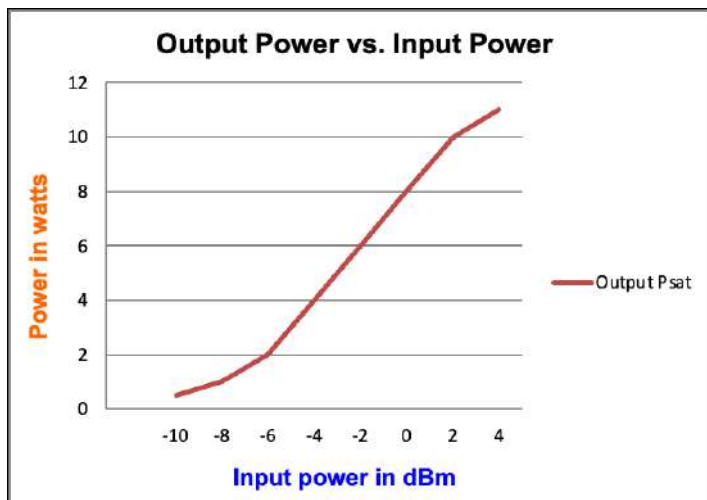
## MECHANICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		19 x 15 x 3.5		Inches
Weight	Wt.		25		lbs.
Connectors In/Out	RF Conn		N-Type		-
Cooling	Th		Forced air cooling		-

## OPTIONS

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

## Mechanical Drawings



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email us on-line at [www.eliterf.com](http://www.eliterf.com)

**Rev 2302/14/2023:**  
Specifications subject to change,  
consult sales for latest information

**Product Compliance:**  
ECCN: EAR99  
USHTS: 8541290075