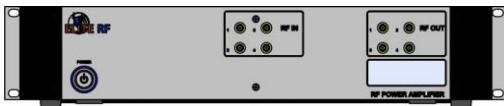


Model – AB050200M3740AC-4R


 5 watts 50 to 200 MHz 100 - 240 VAC
 4 channels

General Description:

Elite RF's AB Series amplifier is a wideband power amplifier designed for CW signals fabricated on LDMOS process and can operate up to 200 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 warranty.

Features

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

Protections

Thermal Overload
 Over Voltage

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	50		200	MHz
Output Power CW	Psat		5		Watt
Output Power at 1 dB Compression	P1dB		2		Watt
Small Signal Gain	Gp		40		dB
Gain Flatness	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		Ratio
IMD @ 200 MHz @ 1 watt/tone / 1 MHz spacing	IP3		44		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		200		Watt
Class of Operation	C		AB		Class
Noise Figure	NF		3		dB
Large Signal Gain	Lsg		39		dB
Max Load VSWR @ 5 Watts	ML		open/short		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		-

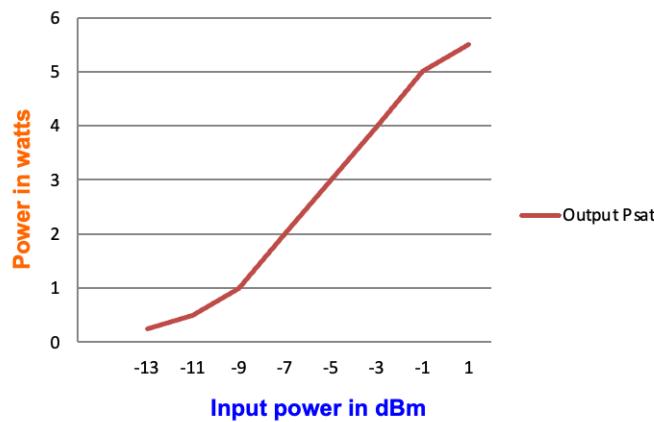
OPTIONS

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

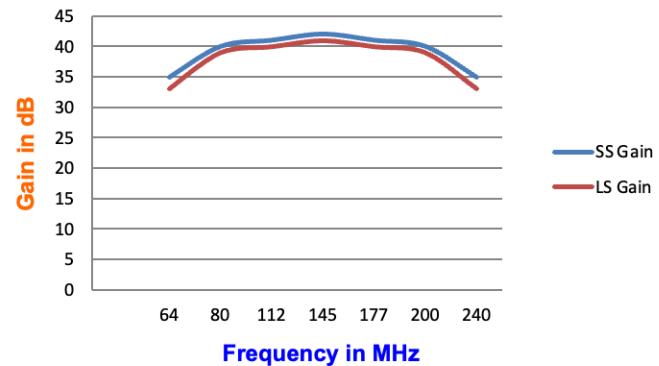
Mechanical Drawings



Output Power vs. Input Power



Gain vs. Frequency



Elite RF LLC
1700 Tower Drive, Hanover Park, IL. 60133
Call us for customer service/technical support at: 847-592-6350
Order or email us on-line at www.eliterfllc.com

Rev 2 02/14/2025:
Specifications subject to change,
consult sales for latest information

Product Compliance:
ECCN: EAR99
USHTS: 8541290075