LINEAR WIDEBAND POWER AMPLIFIER

Model – HS.501.6M7068AC

10,000 watts 0.5 to 1.6 MHz 380- 480 VAC

General Description:

Elite RF's high power amplifier is a wideband power amplifier designed for CW signals fabricated on LDMOS process and can operate up to **1.6 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.

Features

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

Protections

Thermal Overload
Over Voltage
High VSWR

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	0.5		1.6	MHz
Output Power CW	Psat		10,000		Watt
Output Power at 1 dB Compression	P1dB		N/A		Watt
Small Signal Gain	Gp		68		dB
Gain Flatness	Delta Gp 1		+/- 1		dB
Input VSWR	S11		2:1		Ratio
IMD	IP3		N/A		dBm
Harmonics	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	Opv	380	480 3 PHASE	490	VAC
AC Power at 10,000 watts	Pd		16,000		Watt
Class of Operation	C		AB		Class
Noise Figure	NF		N/A		dB
Large Signal Gain	Lsg		65		dB
Max Load VSWR @ 10,000 Watts	ML		10: 1		Ratio

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating 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		

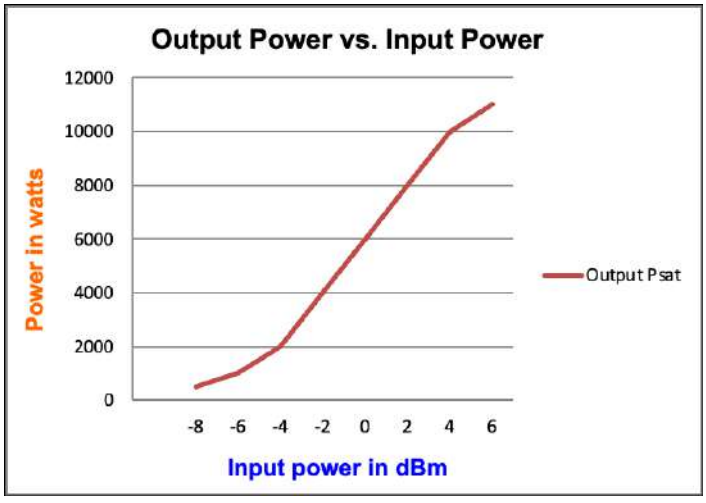
MECHANICAL CHARACTERISTICS

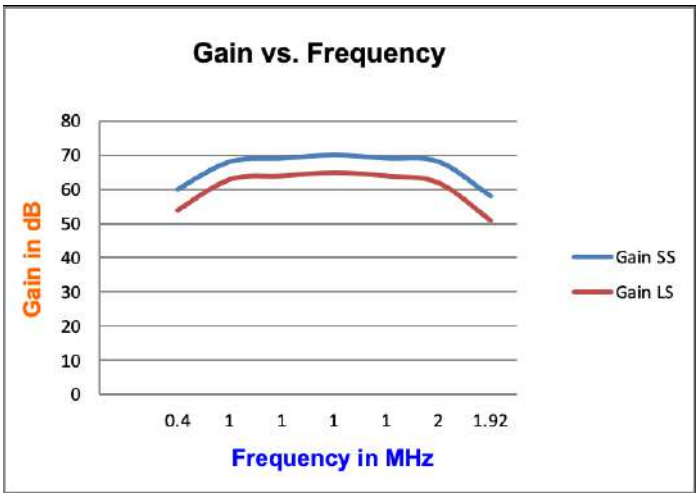
Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		24 x 36 x 48		Inches
Weight	Wt.		250		lbs.
Connectors In/Out	RF Conn		N / 1 5/8 EIA		-
Cooling	Th		Forced air cooling		-

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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