



Note: amp dimensions have changed to 6" x 4" x 1"

General Description:

This system is a broadband power amplifier designed for CW/Digital/Pulse signals and general-purpose amplification. Using advanced high power density LDMOS and GaN semiconductor devices, these high-performance amplifiers achieve high efficiency, high gain, and wide dynamic range. Like all Elite RF amplifiers, the product comes with an industry leading warranty.

Features

2 - 30 MHz
30 watts
30 dB gain
Class AB
28 VDC
Efficiency > 35%
On/Off Enable- Ground to disable amplifier

Indicator options

DC Power
Temp Fault

Protections

Thermal Overload
Over Voltage
Reverse Polarity

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	2		30	MHz
Output Power CW	Psat		30		Watt
Output Power at 1 dB Compression	P1dB		15		Watt
Small Signal Gain	Gp		30		dB
Gain Flatness @ Psat	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		-
IMD	IP3		50		dBm
Harmonics at 15 Watts	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	27	28	29	VDC
Current at 25 watts	Current		1.5		Amps
Class of Operation	C		AB		Class
Noise Figure	NF		8		dB
Large Signal Gain	Lsg		28		dB

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		Heatsink required		-