



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

Freq: 100- 18000 MHz
 Psat: 27 dBm
 IP3: 34 dBm
 Gain: 27 dB
 Class A
 15 VDC

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	100		18000	MHz
Output Power CW	Psat		0.50		Watt
Output Power at 1 dB Compression	P1dB		24		dBm
Small Signal Gain	Gp		27		dB
Gain Flatness @ P1dB	Delta Gp 1		+/- 2 dB		dB
Input VSWR	S11		2:1		-
IMD	IP3		34		dBm
Harmonics at 20 dBm	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	14	15	16	VDC
DC Current	Current		600		mA
Class of Operation	C		A		Class
Noise Figure	NF		5		dB
Gain Adjustment Range	GA		N/A		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		1.25 x .85 x .5		Inches
Weight	Wt.		0.3		lbs.
Connectors In/Out	RF Conn		SMA/SMA		-
Cooling	Th		Convection		-

Rev 2 9/8/20:
 Specifications subject to change,
 consult sales for latest information