



Solid State Wideband Power Amplifier

Model – ML.458.0G214424

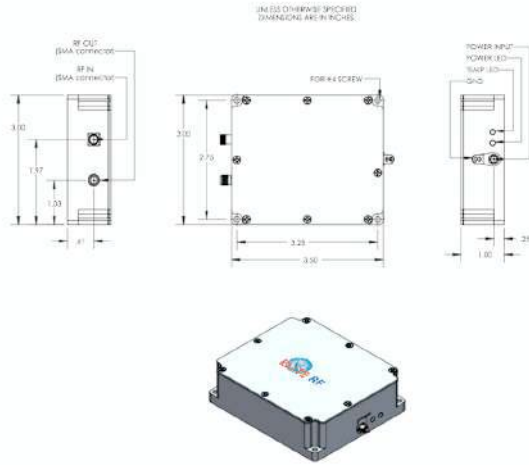
450 - 8000 MHz

21 dBm

Linear Power Amplifier

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 **3-year warranty**



Features

450 – 8000 MHz
21 dBm
44 dB gain
Class A
15 VDC

Indicator options

DC Power
Temp Fault

Protections

Thermal Overload
Over Voltage
Reverse Polarity

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	450		8000	MHz
Output Power CW	Psat		24		dBm
Output Power at 1 dB Compression	P1dB		21		dBm
Small Signal Gain	Gp	40 @ 450 MHz	44	36 @ 8 GHz	dB
Gain Flatness @ P1dB	Delta Gp 1		+/- 2		dB
Input VSWR	S11		2:1		-
IMD @ 4 GHz @ 10 dBm/ tone	IP3		31		dBm
Harmonics at 21 dBm	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	22	24	28	VDC
DC Current	Current		200		mA
Class of Operation	C		A		Class
Noise Figure	NF		1.5		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		3.5 x 3.0 x 1.0		Inches
Weight	Wt.		1		lbs.
Connectors In/Out	RF Conn		SMA/SMA		-
Cooling	Th		Convection		-

Rev3 4/22/2023:
Specifications subject to change,
consult sales for latest information

Elite RF LLC

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