



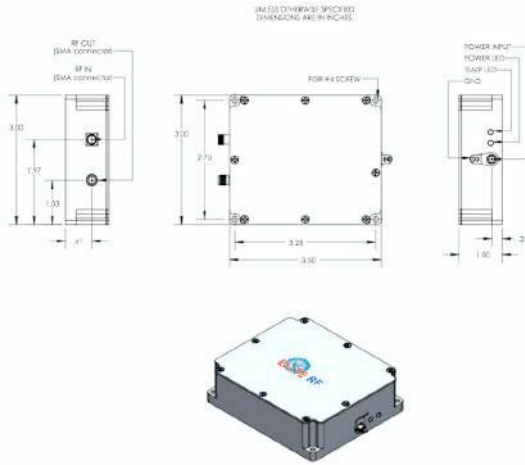
# Solid State Wideband Power Amplifier

**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 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

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