

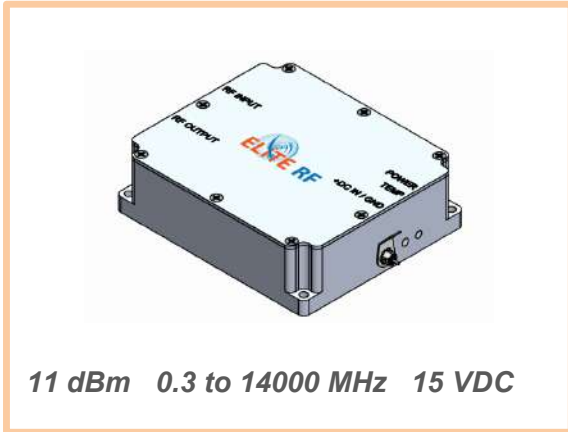
# LINEAR WIDEBAND POWER AMPLIFIER

**Model – ML.03014G112415**

## General Description:

Elite RF's **ML Series** amplifier is a wide-band amplifier designed for CW/Pulse signals fabricated on GaN on SiC process and can operate up to **14.0 GHz**. 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 IP3  
High Gain  
High Reverse Isolation  
Built-in Protection  
Class A

### Indicator options

DC Power  
Temp Fault

### Protections

Thermal Overload  
Over Voltage  
Reverse Polarity

## ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	0.3		14000	MHz
Output Power CW	Psat		14		dBm
Output Power at 1 dB Compression	P1dB		11		dBm
Small Signal Gain	Gp		24		dB
Gain Flatness	Delta Gp 1		+/- 3		dB
Input VSWR	S11		2:1		Ratio
IMD @ 2 GHz @ 0 dBm/tone / 1 MHz spacing	IP3		20		dBm
Harmonics	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	14	15	16	VDC
Current at 11 dBm	Current		0.2		Amps
Class of Operation	C		A		Class
Noise Figure	NF		7		dB
Large Signal Gain	Lsg		N/A		dB
Max Load VSWR @ 11 dBm	ML		N/A		Ratio

## 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		Heat sink not required		-

## 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

