LINEAR WIDEBAND POWER AMPLIFIER



Model – ML5.9018G185515



General Description:

Elite RF's ML Series amplifier is a wideband power amplifier designed for CW signals fabricated on GaN on SiC process and can operate up to **18 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 **3-year warranty**.

Features	Indicator options	Protections
Wide Freq. Range High Output Power High Gain High Reverse Isolation Built-in Protection)	DC Power Temp Fault	Thermal Overload Over Voltage Reverse Polarity

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Тур	Max	Unit
Frequency Range	BW	5900		18000	MHz
Output Power CW	Psat		.1		Watt
Output Power at 1 dB Compression	P1dB		.05		Watt
Small Signal Gain	Gp		55		dB
Gain Flatness	Delta Gp 1		+/- 3		dB
Input VSWR	S11		2:1		Ratio
IMD @ 12 GHz @ .01 watt/tone / 1 MHz spacing	IP3		27		dBm
Harmonics	Н		-20		dBc
Spurious Signals	Spur		-50		dBc
Operating Voltage	VDC	14	15	16	VDC
Current at 0.1 watts	Current		.60		Amps
Class of Operation	С		А		Class
Noise Figure	NF		5		dB
Large Signal Gain	Lsg		53		dB
Max Load VSWR @ 0.1 watts	ML		20:1		Ratio

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Тур	Max	Unit
Operating Case Temperature	Тс	-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

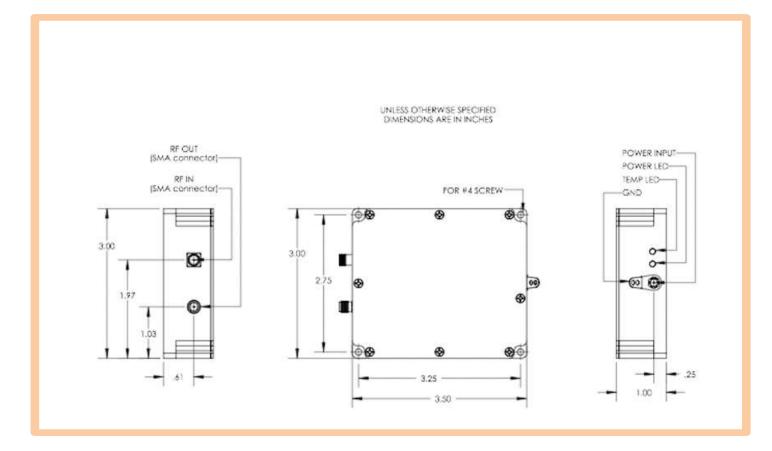
Parameter	Symbol	Min	Тур	Мах	Unit
Dimensions	Dim		6.0 x 4.0 x 1.0		Inches
Weight	Wt.		1		lbs.
Connectors In/Out	RF Conn		SMA/SMA		-
Cooling	Th		Heat sink required		-

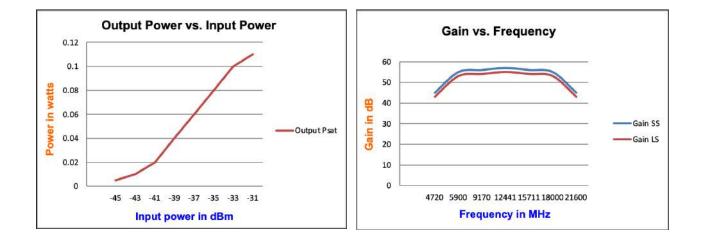
OPTIONS

Parameter	Add suffix to part number
Heat sink and fans	- H
Isolator with forward and reverse voltage outputs	N/A
TTL Input Trigger	- T



Mechanical Drawings







Elite RF LLC 1700 Tower Dr, Hanover Park, IL 60190, USA Call us for customer service/technical support at: 847-592-6350 Order or email us on-line at www.eliterf.com Rev 3 04/14/2023: Specifications subject to change, consult sales for latest information

Product Compliance: ECCN: EAR99