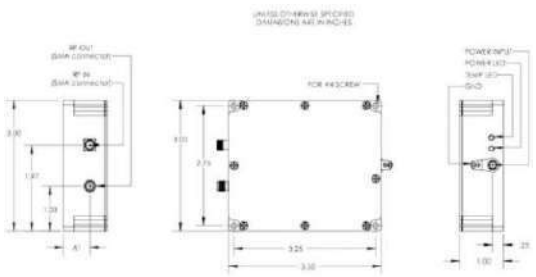
ULTRA LINEAR WIDEBAND AMPLIFIER

Model – ML.752.4G243415



General Description:

Elite RF's ML Series is a broadband high power MMIC amplifier fabricated on 0.15 um GaN on SiC process. These amplifier series operate from 6 - 18 GHz and provides more than 20 W saturated output power. This combination of wideband performance provides the flexibility designers are looking for to improve system performance while reducing size and cost. Like all Elite RF amplifiers, the product comes with an industry leading warranty.

Features	Indicator options	Protections
Freq: 0.75 – 2.4 GHz	DC Power	Thermal Overload
Psat: 27 dBm	Temp Fault	Over Voltage
Gain: 34 dB		Reverse Polarity
Class: A		
Voltage: 15 VDC		

ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	0.75		2.4	GHz
Output Power CW	Psat		27		dBm
Output Power at 1 dB Compression	P1dB		24		dBm
Small Signal Gain	Gp	45 @ 40 MHz	34	27 @ 3 GHz	dB
Gain Flatness @ P1dB	Delta Gp 1		N/A		dB
Input VSWR	S11		2:1		-
IMD @ 2 GHz @ 10 dBm/ tone	IP3		31		dBm
Harmonics at 18 dBm	H		-20		dBc
Spurious Signals	Spur		-60		dBc
Operating Voltage	VDC	14	15	16	VDC
DC Current	Current		-		mA
Class of Operation	C		A		Class
Noise Figure	NF		0.7		dB
Max Load VSWR @ 21 dBm				Open/Short	

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		-

Rev 2 06/31/2023:
Specifications subject to change,
consult sales for latest information

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