

High Power Amplifier, Solid State, Broadband 800-2500MHz, 52dB Gain, N Female Connectors, 120 Watts

RAMP-800-2500M-52d-Nf-120W-e7



This amplifier is suitable for L & S broadband high power linear applications. It utilizes high power frequency GaAsFET devices that provide wide frequency response and dynamic range, high gain, low distortions and excellent linearity

- Solid-state linear design
- Instantaneous broadband
- Small and lightweight
- Standard front panel manual gain adjust
- Suitable for most modulations types
- 50 ohm input/output impedance
- High reliability and ruggedness

ELECTRICAL SPECIFICATIONS @ 110 VAC, 25°C, 50 Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	800		2500	MHz
Power Output CW	PSAT	120			Watt
Output Power @ 1 dB Gain Compression Point	P1dB	100			Watt
Power Gain @ 1 dB Gain Compression Point	G1dB	52			dB
Input Power for Rated Pout	PIN		0		dBm
Small Signal Gain Flatness	ΔG			±2.0	dB
Gain Adjustment Range	FGA	25			dB
Input Return Loss	S11			-10	dB
Noise Figure	NF		7	10	dB
Third Order Intercept Point	IP3		+60		dBm
Harmonics @ P1 dB Gain Compression Point			-20		dBc
Spurious Signals	Spur		-70	-60	dBc
Operating Voltage (single phase)	VAC	100		240	Volt
AC Power Consumption	PD			1300	Watt

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimensions	19 x 8.75 x 22	Inch	Max
Weight	80	lb.	Max
RF Connectors, Input/Output	Type-N female		
Cooling	Built in internal forced air cooling system		

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Tc	0		50	°C
Non-operating Temperature	Tstg	-40		+85	°C
Relative Humidity (non-condensing)	RH			95	%
Altitude (MIL-STD-810F Method 500.4)	ALT	10,000		30,000	Feet
Shock / Vibration (MIL-STD-810F Method 516.5)	SH / VI		Airborne		

PROTECTIONS

Input Overdrive	+6 dBm	Max
Load VSWR @ Pout = 80W	∞ @ any angle & magnitude	Nom
Thermal Overload	85°C shutdown	Max

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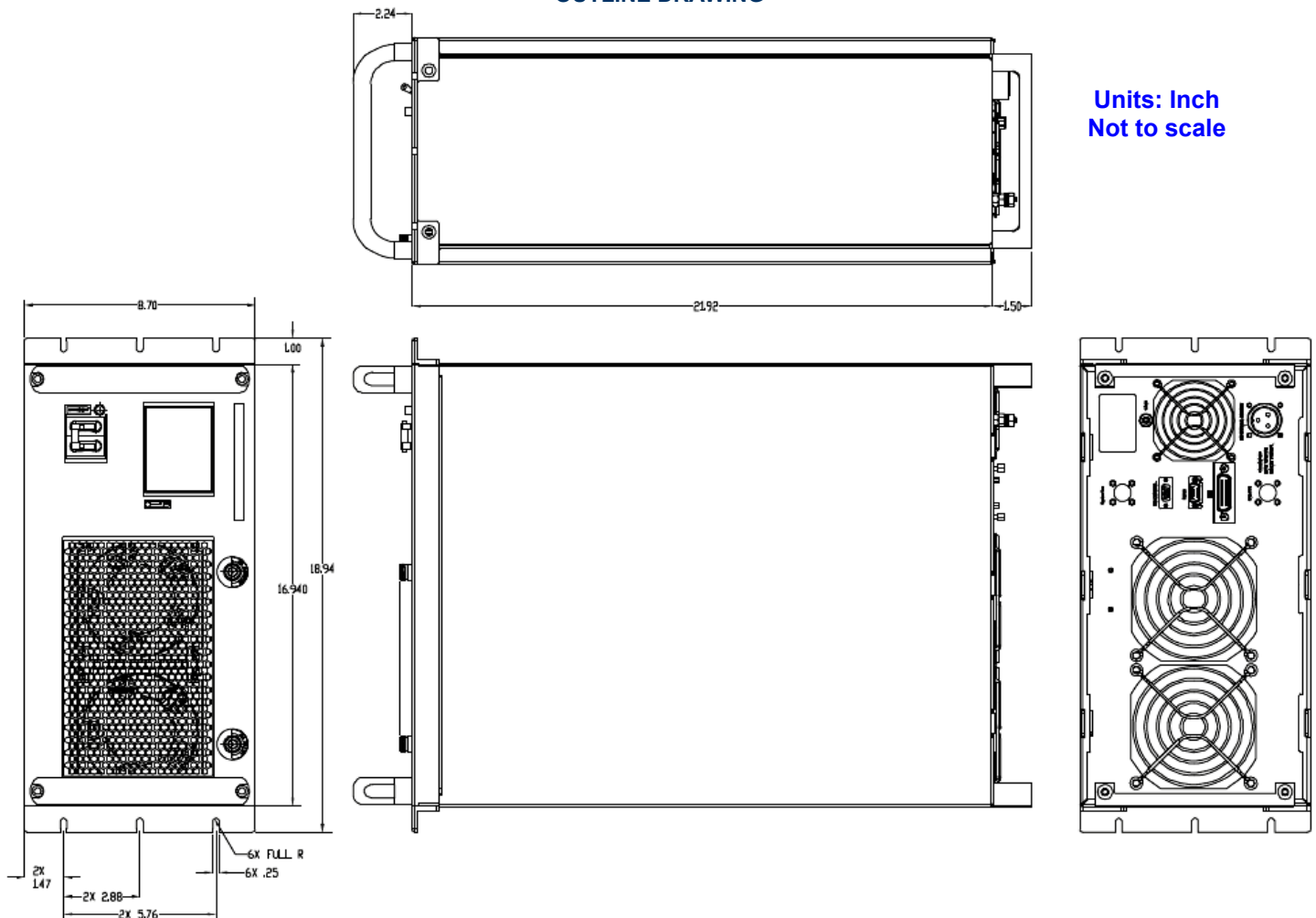
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SELECTED AVAILABLE OPTIONS

Option	Description
FGA	Front panel 10 turns manual gain adjustment.
LCD	Touch screen Digital Display, including Fwd/Rev Power indication (dB or Watt scale), Gain Adjustment, ALC Fast/Slow, On/Off, Standby mode, Fault indication, Rear panel HPIB IEEE-488.2 or Full Duplex RS232 remote interface. Note: Output Power is lowered by 0.5 - 0.75 dB with this option.
FCN	Front Panel Type-N female
RCN	Rear Panel Type-N female

OUTLINE DRAWING

Units: Inch
Not to scale



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TYPICAL PERFORMANCE PLOTS

