**411 LA** 

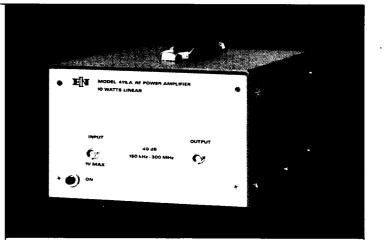
## BROADBAND POWER AMPLIFIER

## DESCRIPTION

The Model 411LA is a general purpose broadband amplifier capable of more than 10 watts of linear power output when driven by any laboratory signal or sweep generator from 150 kHz to 300 MHz.

An ultra linear Class A design, the 411LA will "boost" the output of any signal source by a flat 40dB and provide its full forward output power into any load impedance (from an open to a short circuit). Its output is a faithful reproduction of the input waveform for AM, FM, SSB, CATV, pulse and other complex modulations. Although specified for linear power output only, the 411LA will typically supply more than 15 watts of power before reaching saturation.

An integral power supply and cooling system permit operation over a wide range of temperature and AC line conditions. The use of plug-in modules makes the 411LA both reliable and easy to service.



- All Solid State
- Flat 150 kHz to 300 MHz
- 100 kHz to 320 MHz Usable Coverage
- 10 Watts Linear Output
- No Bandswitching
- Works into Any Load
- Failsafe

Frequency Coverage:	150 kHz to 300 MHz	Output VSWR:	2.3 maximum
Maximum Linear		Stability:	Unconditionally stable; unit
Power Output	More than 10 watts		will not oscillate for any con- dition of load and source
Input Signal:	Unit will accept CW, AM, FM, SSB, CATV, pulse and other		impedances.
	complex modulations, limited only by their bandwidth and peak input level.	Protection:	Unit will withstand a + 17 dB overdrive (1 volt RMS) for all output load conditions, in- cluding short and open
Gain:	40dB nominal		circuits.
Gain Variation:	$\pm$ 1.5 dB	Power Requirements:	115/230 VAC ±10%, 50-
Harmonic Distortion:	All harmonics greater than	nequirements.	60 Hz , at 120 watts.
	25dB below the fundamental		
	at 9.5 watts output. Lower	Size & Weight	5.7 x 8.7 x 15.4 in. 14.8 x 22 x 39.1 cm.
	distortion at reduced power.		22 lbs., 10 kg.
Typical 3rd Order		Oneretine	
Intermodulation Intercept Point	+49dBM	Operating Temperature:	0° to 45°C
Noise Figure:	10dB	Output Connector:	BNC standard, SMA and Type
		Connector:	N optional
Input/Output Impedance:	50 ohms		
impedance.	50 0005	Rack Mounting*:	Optional
Input VSWR:	1.6 maximum		
		411LA-R*	

## SPECIFICATIONS

## www.valuetronics.com