

**601 L  
601 P**

# ENI BROADBAND POWER AMPLIFIER

## DESCRIPTION

The ENI Model 601L and 601P are ultra wideband, Class A, solid state amplifiers whose wide range of frequency coverage and power output provides the ultimate in flexibility and versatility.

The units are designed to easily mate with any standard signal or sweep generator providing a flat power output for any AM, FM, SSB, TV, pulse and other complex modulations into a 50 ohm load.

Constant forward power (up to 2.2 watts) is continuously available regardless of the output load impedance. Unconditional stability and instantaneous failsafe provisions designed into the amplifiers insure absolute protection from damage due to transients and overloads.

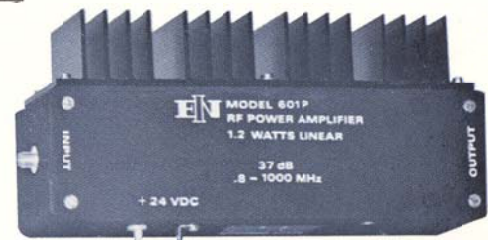
The Model 601P is designed for OEM applications where small rugged packaging and operation in extreme temperature and environmental conditions is desired.

## SPECIFICATIONS

601L



601P



**Frequency Coverage:** 0.8 to 1000MHz

**Power Output:** 1.2 watts CW and PEP at rated distortion, up to 2.2 watts saturated

**Input Signals:** Unit will accept CW, AM, FM, SSB, pulse, wideband sweep and other complex modulations, limited only by their bandwidth and peak input level.

**Gain:** 37dB nominal

**Gain Variation:** ±1.5dB maximum

**Harmonic Distortion:** All harmonics at least 22 dB below the fundamental at 1.2 watts output. Lower distortion at reduced power.

**Typical 3rd Order Intermodulation Intercept Point:** +42dBm

**Noise Figure:** 9dB nominal

**Input Impedance:** 50 ohms, VSWR 2:1

**Output Impedance:** 50 ohms, VSWR 3:1

**Stability:** Unconditionally stable; unit will not oscillate for any condition of load and source impedance.

**Protection:** Unit will withstand a +16dB overdrive (input signal of 1V RMS) for all output load conditions, including short and open circuit loads.

	601L	601P
<b>Power Requirements:</b>	115/230 VAC ±12% 50/60Hz at 45 Watts	24 ±.25 VDC at 1 ampere
<b>Operating Temperature:</b>	0° to 45° C	
<b>Allowable Case Temperature:</b>		-40° to 75° C
<b>Thermal Resistance:</b>		1.5° C/Watt, case to air
<b>Size:</b>	3.5 x 7 x 12.5 in. 8.9 x 17.8 x 31.8 cm.	2.2 x 7.5 x 3.2 in. 5.6 x 19.1 x 8.1 cm.
<b>Weight:</b>	8 lbs.; 3.6 kg.	1.5 lbs.; .68 kg.
<b>Output Connectors:</b>	BNC	SMA