

ENI 500 SERIES AMPLIFIERS

Ultra-High Frequency To 500MHz, 3 to 100 Watts

Covering the frequency range between 1 to 500 MHz, the four units that make up the “500” Series amplifiers range in linear power output from 3 to 100 Watts.

The Model 550L and 5100L cover the frequency range of 1.5 to 400 MHz with a flat gain of 50 dB and Class A power outputs of 50 and 100 Watts, respectively. When used in applications requiring maximum output power the units will provide more than twice their Class A power over the frequency range of 1.5 to 200 MHz.

With a flat frequency response over the range of 1 to 500 MHz the Model 525LA will provide 25 Watts of Class A power. When used in applications below 200 MHz the unit will provide output power in excess of 40 Watts.

The Model 503L covers the frequency range of 2 to 500 MHz and will provide three Watts of Class A power.

The versatility and outstanding performance specifications of the “500” series amplifiers make them ideal for use in applications such as RF transmission, RFI/EMI susceptibility, NMR Spectroscopy and general laboratory instrumentation.

SPECIFICATIONS

	MODEL 503L	MODEL 525LA	MODEL 550L	MODEL 5100L
Frequency Coverage	2 to 510MHz	1 to 500MHz	1.5 to 400MHz	1.5 to 400MHz
Maximum Class A Linear Power Output	3 Watts	25 Watts	50 Watts	100 Watts
Gain	40dB (nominal)	50dB (nominal)	50dB (nominal)	50dB (nominal)
Gain Variation	± 1.5 dB	± 1.5 dB	± 1.5 dB	± 1.5 dB
Typical 3 rd Order Intermodulation Intercept Point	+ 44 dBm	+ 56 dBm	+ 59 dBm	+ 62 dBm
Input/Output Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Input VSWR	1.5:1 Maximum	1.8:1 Maximum	1.8:1 Maximum	1.8:1 Maximum
Output VSWR	2.5:1 Maximum	3:1 Maximum	2.5:1 Maximum	2.5:1 Maximum
Noise Figure	10 dB	12 dB	12 dB	12 dB
Power Requirements	115 VAC ± 10% 50/60 Hz, 1.2A 230VAC ± 10% 50/60Hz, 0.6A	115 VAC ± 8% 50/60 Hz, 6A 230VAC ± 10% 50/60Hz, 3A	115 VAC ± 8% 50/60 Hz, 12A 230VAC ± 10% 50/60Hz, 6A	115VAC +6%-12% 50/60 Hz, 22A 230VAC +6%-12% 50/60Hz, 11.5A
Operating Temperature	0° to 45°C	0° to 45°C	0° to 45°C	0° to 45°C
Size	5.25" x 8.5" x 10"	7.5"x10.2"x 17.1"	8.5"x15.5"x19.75"	15.7"x17.1"x23"
Weight	11 Lbs	42 Lbs	59 Lbs	102 Lbs
Connectors	BNC	Type N	Type N	Type N