

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 |