



# E&I 1020L POWER AMPLIFIER

## 200 Watts RF Power For:

- Ultrasonics
- Medical
- Industrial Use
- Laboratory Applications



## Featuring:

- 10 kHz – 5 MHz
- Power Measurement
  - Forward & Reflected
- Instantaneous Bandwidth
- Solid State Reliability
- Forced Air Cooling

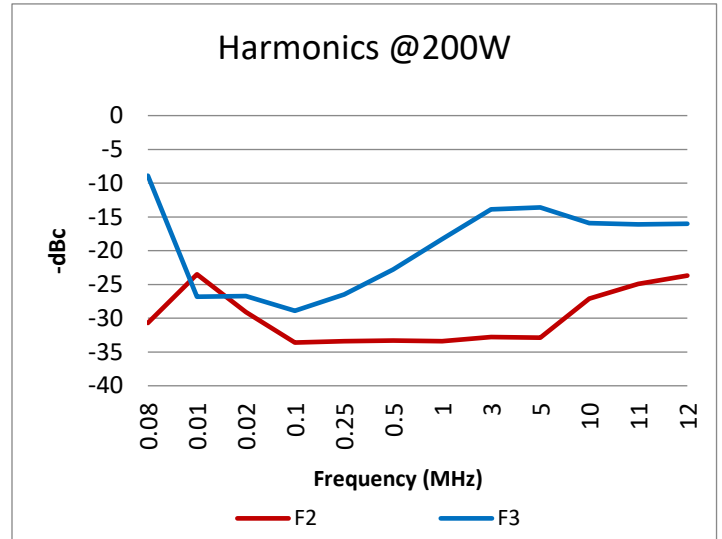
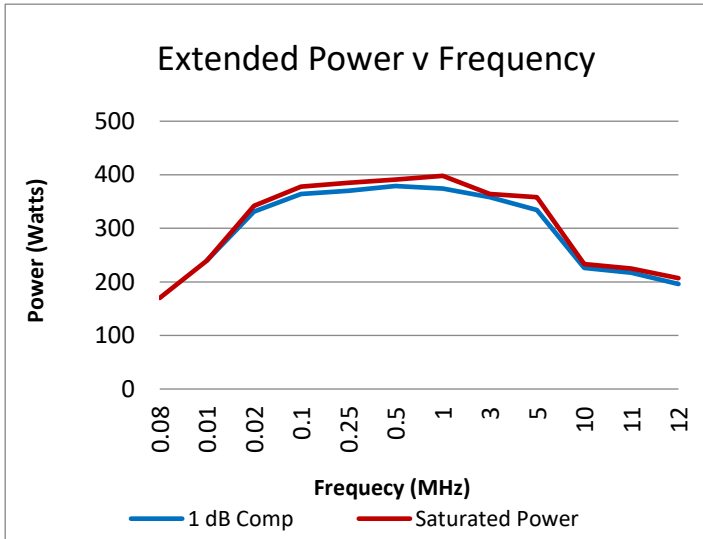


### E&I 1020L Specifications\*

|                                    |   |
|------------------------------------|---|
| <b>Class of Operation:</b>         | Class AB  |
| <b>Frequency Coverage:</b>         | 10 kHz – 5 MHz  |
| <b>Rated Power:</b>                | 200+ Watts  |
| <b>Saturated Power:</b>            | 300 Watts   |
| <b>Power Gain:</b>                 | 53 dB nominal   |
| <b>Gain Flatness:</b>              | +/- 1.5 dB  |
| <b>Harmonic Level:</b>             | < -13dBc  |
| <b>Input Power for Rated Pout:</b> | 0 dBm (1mW)   |
| <b>Input Impedance / VSWR:</b>     | 50 Ω / 1.5:1 maximum  |
| <b>Output Impedance / VSWR:</b>    | 50 Ω / 2:1 maximum  |
| <b>Ruggedness:</b>                 | ∞:1 VSWR  |
| <b>Protection:</b>                 | Unit will withstand input signal of +13 dBm without damage. (Overdrive limit 300 Watts) |
| <b>AC Input:</b>                   | 100 – 240 VAC 47 – 63 Hz<br>4.5 A @ 120 V<br>2.25 A @ 240 V                             |
| <b>Temperature Range:</b>          | 0° – 45° C  |
| <b>Cooling:</b>                    | Forced Air  |
| <b>Dimensions (H x W x D):</b>     | 5.12 x 16.5 x 20 inches<br>130 x 420 x 508 mm   |
| <b>Weight:</b>                     | 32.5lbs (14.7 Kg)   |
| <b>Connectors:</b>                 | BNC   |
| <b>Rack Mounting:</b>              | Optional  |
| <b>RF Input Signal:</b>            | AM, FM, SSB, Pulsed   |



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## Protection:

- Software Overdrive Limit: 300 Watts
- Software Reverse Power Limit: 225 Watts (unit can withstand 100% reflected power)

## Performance into 50 Ω

| Input Level |       |       |       | Amplifier Gain | Output Power |        |        |        |
|-------------|-------|-------|-------|----------------|--------------|--------|--------|--------|
| Input Power |       | V p-p | V rms |                | Output Power |        | V p-p  | V rms  |
| Watts       | dBm   | Volts | Volts | Nominal<br>dB  | dBm          | Watts  | Volts  | Volts  |
| 0.000250    | -6.02 | 0.32  | 0.11  | 50             | 43.98        | 25.00  | 100.00 | 35.36  |
| 0.0010      | 0.00  | 0.30  | 0.22  | 50             | 50.00        | 100.00 | 200.00 | 70.71  |
| 0.0020      | 3.02  | 0.89  | 0.32  | 50             | 53.02        | 200.22 | 283.00 | 100.06 |
| 0.0023      | 3.52  | 0.95  | 0.34  | 50             | 53.52        | 225.00 | 300.00 | 106.07 |



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