



# 2400L POWER AMPLIFIER

## 400 Watts RF Power For:

- Ultrasonic
- Testing
- Laboratory use



## Featuring:

- 10 KHz to 10 MHz
- Instantaneous Bandwidth
- 400 W 1dB Compression
- Solid State Reliability
- Forced Air Cooling

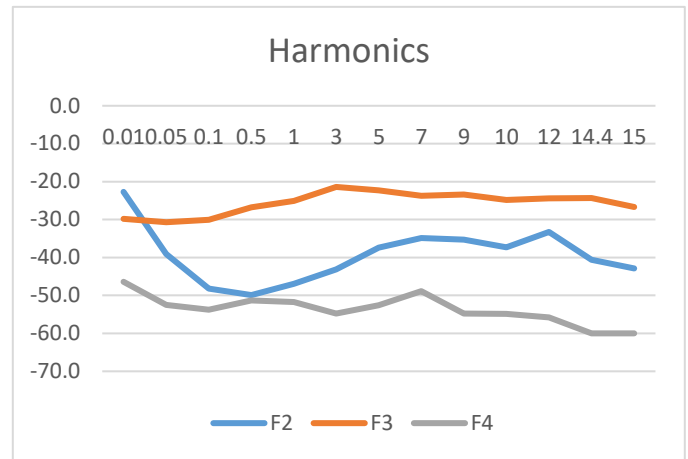
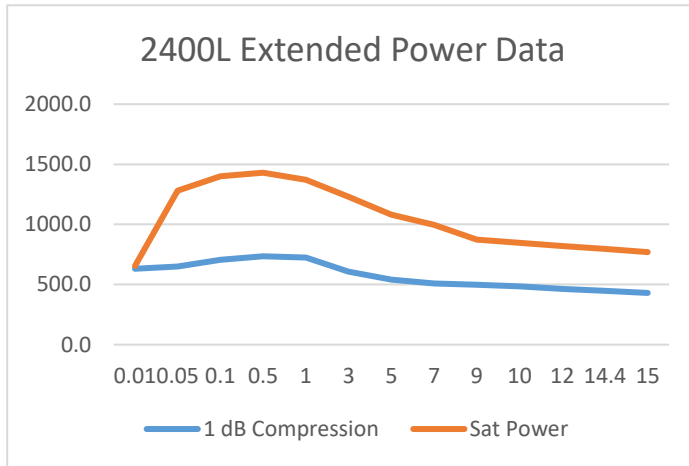


### E&I 2400L Specifications\*

|                             |                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------|
| Class of Operation:         | Class A                                                                                             |
| Frequency Coverage:         | 10 KHz to 10 MHz                                                                                    |
| Rated Power:                | 400 W 1dB Compression                                                                               |
| Saturated Power:            | 550 W Maximum                                                                                       |
| Power Gain:                 | 55 dB nominal                                                                                       |
| Gain Flatness:              | +/- 1.5 dB                                                                                          |
| Input Power for Rated Pout: | 1 mW Max                                                                                            |
| Input Impedance / VSWR:     | 50Ω / 1.5:1 maximum                                                                                 |
| Output Impedance / VSWR:    | 50Ω / 1.25:1 maximum                                                                                |
| Harmonic Level:             | < -21dBc                                                                                            |
| Ruggedness:                 | ∞:1 VSWR                                                                                            |
| Stability:                  | Unconditional into any passive load                                                                 |
| Protection:                 | Unit will withstand input signal of +13 dBm without damage (1.0 V rms) max. and infinite load VSWR. |
| Third Order Intercept:      | IP3 ~ 64 dBm                                                                                        |
| AC Input:                   | 100 – 264 VAC 47-63 Hz                                                                              |
| Temperature Range:          | 0 – 40 C                                                                                            |
| Cooling:                    | Forced air                                                                                          |
| Dimensions (H x W x D):     | 13.0 x 16.5 x 18.1 inches<br>330 x 419 x 462 mm                                                     |
| Weight:                     | 95 lbs (43 Kg)                                                                                      |
| Connectors:                 | Type N                                                                                              |
| Rack Mounting:              | n/a                                                                                                 |
| RF Input Signal:            | AM, FM, SSB, Pulsed                                                                                 |



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## Protection:

- Software Overdrive Limit: 650 Watts
- Software Reverse Power Limit: 450 Watts

## Performance into 50 ohms

| Input       |        |       |       | Amplifier Gain | Output       |        |        |        |
|-------------|--------|-------|-------|----------------|--------------|--------|--------|--------|
| Input Power |        | V p-p | V rms |                | Output Power |        | V p-p  | V rms  |
| Watts       | dBm    | Volts | Volts | Nominal        | dBm          | Watts  | Volts  | Volts  |
|             |        |       |       | dB             |              |        |        |        |
| 0.000016    | -18.04 | 0.08  | 0.03  | 56             | 37.96        | 6.25   | 50.00  | 17.68  |
| 0.0001      | -12.02 | 0.16  | 0.06  | 56             | 43.98        | 25.00  | 100.00 | 35.36  |
| 0.0003      | -6.00  | 0.32  | 0.11  | 56             | 50.00        | 100.00 | 200.00 | 70.71  |
| 0.0010      | 0.02   | 0.63  | 0.22  | 56             | 56.02        | 400.00 | 400.00 | 141.42 |



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