

240L POWER AMPLIFIER

40 Watts RF Power For:

- Ultrasonic
- Testing
- Laboratory Use



Featuring:

- 10 KHz – 12 MHz
- Power Measurement
 - Forward & Reflected
- Instantaneous Bandwidth
- Solid State Reliability
- Forced Air Cooling



Rev N (January 2020)

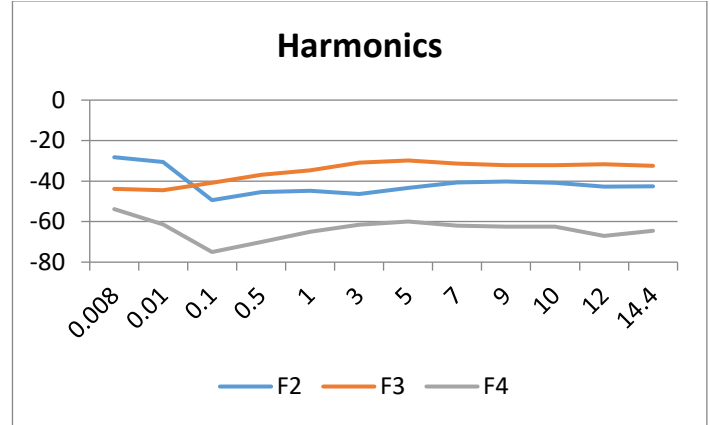
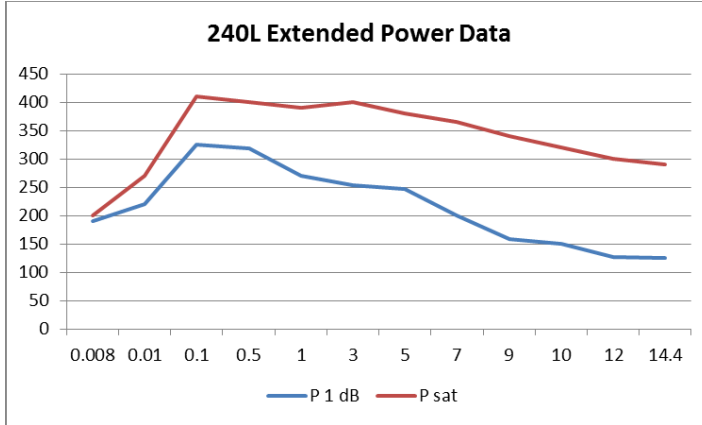
E&I 240L Specifications*

Class of Operation:	Class A
Frequency Coverage:	10 KHz – 12 MHz
Rated Power:	40 Watts P1dB Compression
Saturated Power:	100 Watts
Power Gain:	50 dB nominal
Gain Flatness:	+/- 1.5 dB
Input Power for Rated Pout:	0.4 mW / -4dBm
Input Impedance / VSWR:	50 Ω / 1.5:1 maximum
Output Impedance / VSWR:	50 Ω / 2:1 maximum
Harmonic Level:	< -25 dBc @ 40W Pout
Ruggedness:	∞:1 VSWR
Stability:	Unconditional into any passive or reactive load
Protection:	Unit will withstand input signal of +13 dBm without damage (1.0 V rms) max.
Third Order Intercept:	IP3 ~ 59 dBm
AC Input:	100 – 240 VAC 47-63 Hz Current at rated power 3 A @ 120V 1.5 A @ 240V
Temperature Range:	0° – 40° C
Cooling:	Forced Air
Dimensions (H x W x D):	5.5 x 18.8 x 21 inches 140.27 x 478(w/handles)x 535 mm
Weight:	32.5 lbs (14.8 Kg)
Connectors:	BNC
Rack Mounting:	Optional
RF Input Signal:	AM, FM, SSB, Pulsed



*Subject to change without notice.

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Protection:

- Software Overdrive Limit: 100 Watts
- Software Reverse Power Limit: 100 Watts

Performance into 50 ohms

Input				Amplifier Gain Nominal dB	Output			
Input Power Watts	dBm	V p-p Volts	V rms Volts		Output Power dBm	Watts	V p-p Volts	V rms Volts
0.000250	-6.02	0.32	0.11	50	43.98	25.00	100.00	35.36
0.0004	-3.98	0.30	0.14	50	46.02	40.00	126.49	44.72
0.0006	-2.50	0.47	0.17	50	47.50	56.25	150.00	53.03
0.0010	0.00	0.63	0.22	50	50.00	100.00	200.00	70.71



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