

E&I 403LA POWER AMPLIFIER

3 Watt Linear VHF Amplifier For:

- Signal Distribution
- Communications
- Lab Use



Featuring:

- 150 kHz – 300 MHz
- 3 Watts P1dB
- Rugged Compact Design
- Solid State Reliability
- Forced Air Cooling
- Low Distortion

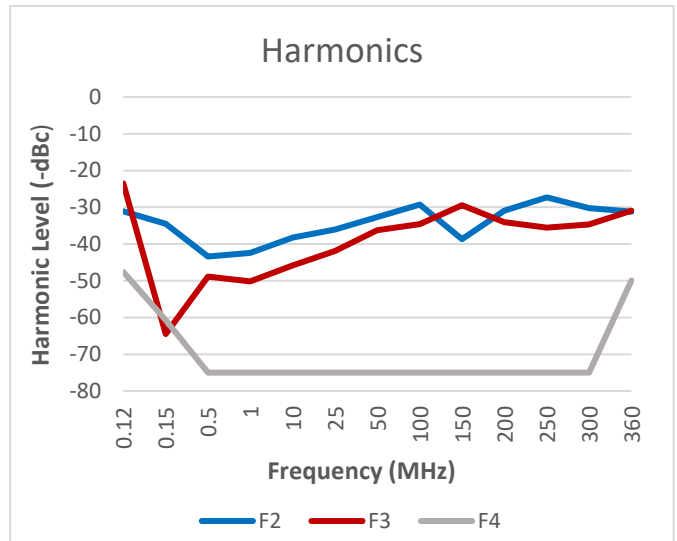
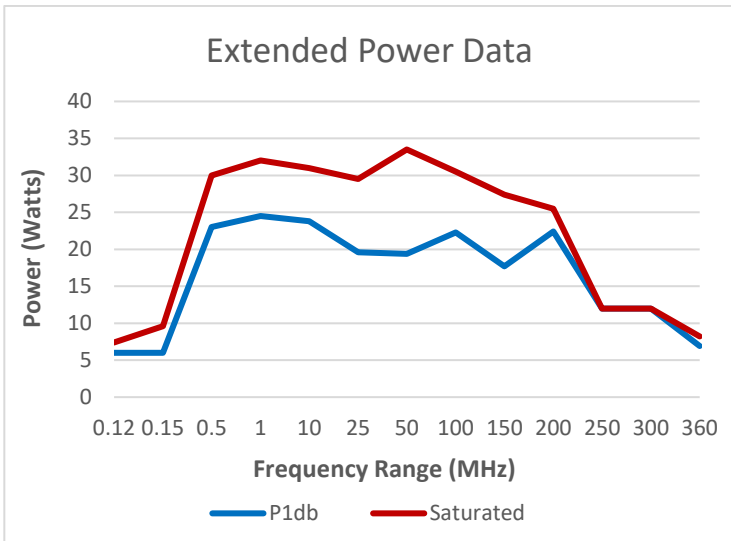


E&I 403LA Specifications*

Class of Operation:	Class A
Frequency Coverage:	250 KHz – 300 MHz
Rated Power:	3.0 Watts
Saturated Power:	8 Watts
Power Gain:	37 dB nominal
Gain Flatness:	+/- 2.5 dB
Input Power for Rated Pout:	1 mw (0 dBm)
Input Impedance / VSWR:	50 Ω / 1.5:1
Output Impedance / VSWR:	50 Ω / 2:1
Harmonic Level:	< -25 dBc @ 3W 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 ~ 45 dBm typical
AC Input:	100 – 240 VAC 47-63 Hz 1 A @ 120V 0.5 A @ 240V
Temperature Range:	0° – 45° C
Cooling:	Forced Air
Dimensions (H x W x D):	3.5 x 6.2 x 10.5 inches 88 x 157 x 267.5 mm
Weight:	7 lbs (3.2 Kg)
Connectors:	BNC
Rack Mounting:	Optional
RF Input Signal:	AM, FM, SSB, Pulsed



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Performance into 50 Ω

Input				Amplifier Gain		Output			
Input Power		V p-p	V rms	Nominal		Output Power		V p-p	V rms
Watts	dBm	Volts	Volts	dB	dB	dBm	Watts	Volts	Volts
0.00023	-6.48	0.30	0.11	37	37	30.52	1.13	21.24	7.51
0.00063	-2.04	0.50	0.18	37	37	34.96	3.13	35.40	12.51
0.00141	1.48	0.75	0.27	37	37	38.48	7.05	53.10	18.77
0.00226	3.53	0.95	0.34	37	37	40.53	11.31	67.25	23.78



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