

# UltraX-10 POWER AMPLIFIER

## 10 Watts RF Power For:

- Neuromodulation Applications



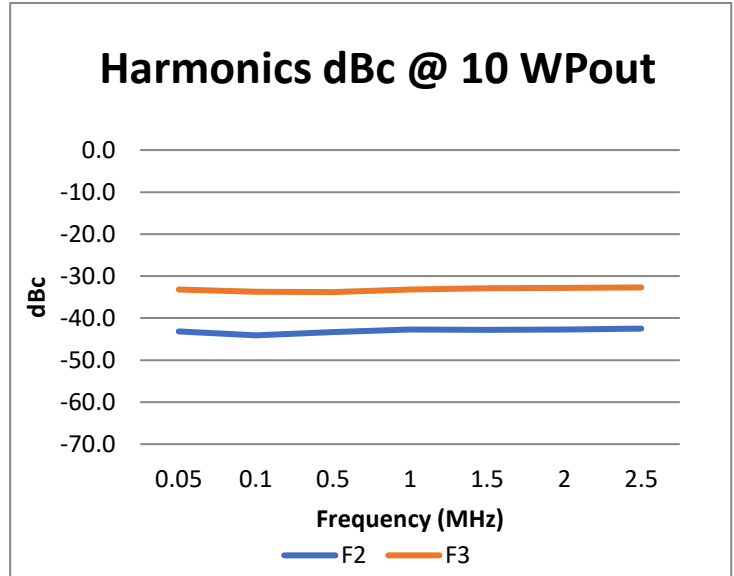
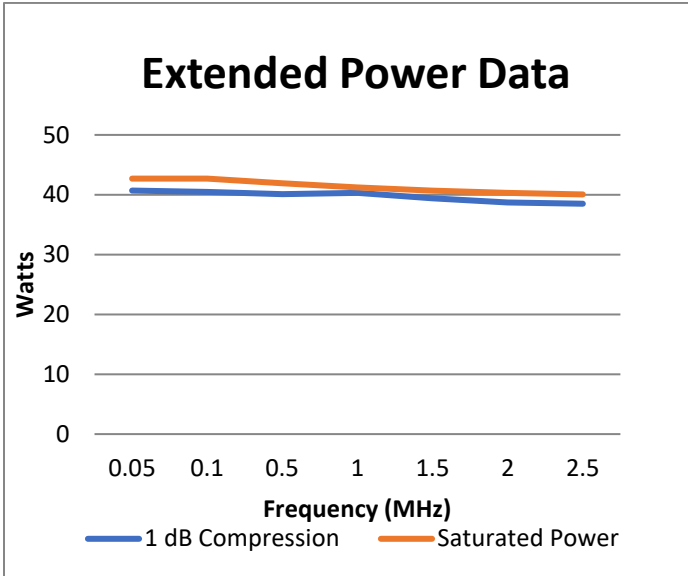
## Featuring:

- 100 KHz – 2 MHz
- 10 W 1dB Compression
- Compact Design
- Solid State Reliability
- Forced Air Cooling
- Low Heat Dissipation

E&I UltraX-10 Specifications*	
<b>Class of Operation:</b>	Class A
<b>Frequency Coverage:</b>	100 KHz – 2 MHz
<b>Rated Power:</b>	10 Watts P1dB Compression
<b>Saturated Power:</b>	20 Watts
<b>Power Gain:</b>	40 dB nominal
<b>Gain Flatness:</b>	+/- 1.5 dB
<b>Input Power for Rated Pout:</b>	1 mW / 0dBm
<b>Input Impedance / VSWR:</b>	50 Ω / 1.5:1 maximum
<b>Output Impedance / VSWR:</b>	50 Ω / 2:1 maximum
<b>Harmonic Level:</b>	< -20 dBc @ 10W Pout
<b>Ruggedness:</b>	∞:1 VSWR
<b>Stability:</b>	Unconditional into any passive load
<b>Protection:</b>	Unit will withstand input signal of +13 dBm without damage (1.0 V rms) max.
<b>Third Order Intercept:</b>	IP3 ~ 56 dBm
<b>AC Input:</b>	100 – 240 VAC 47-63 Hz
<b>Temperature Range:</b>	0° – 40° C
<b>Cooling:</b>	Forced Air
<b>Dimensions (H x W x D):</b>	3.25 x 8.25 x 11.63 82.55 x 209.55 x 295.4 mm
<b>Weight:</b>	5.5 lbs (2.27 Kg)
<b>Connectors:</b>	BNC



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## Performance into 50 ohms

Input				Amplifier Gain Nominal dB	Output			
Input Power		V p-p	V rms		Output Power		V p-p	V rms
Watts	dBm	Volts	Volts	dBm	Watts	Volts	Volts	
0.000156	-8.06	0.25	0.09	40	31.94	1.56	25.00	8.84
0.0006	-2.04	0.30	0.18	40	37.96	6.25	50.00	17.68
0.0014	1.48	0.75	0.27	40	41.48	14.06	75.00	26.52
0.0025	3.98	1.00	0.35	40	43.98	25.00	100.00	35.36



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