

UltraX-20 POWER AMPLIFIER

**20 Watts
RF Power For:**

- Neuromodulation Applications



Featuring:

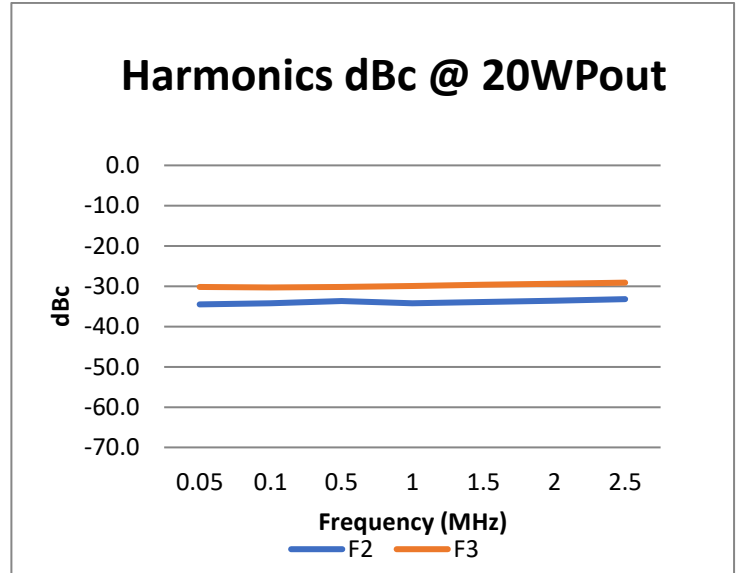
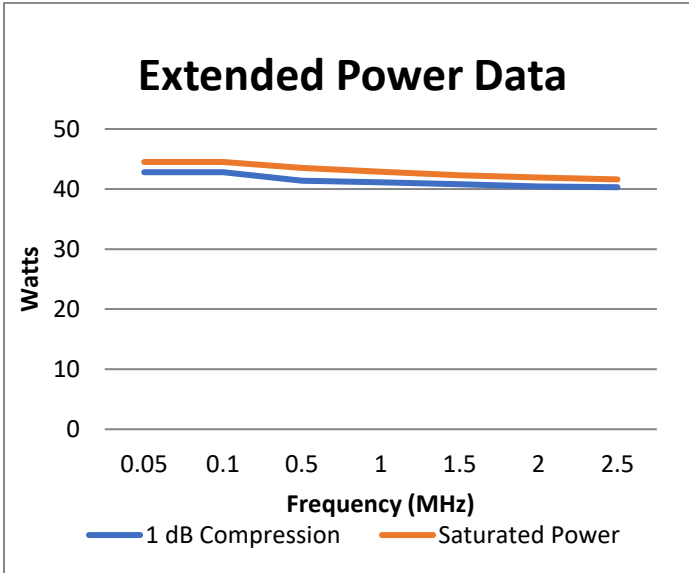
- 100 KHz – 2 MHz
- 20 W 1dB Compression
- Compact Design
- Solid State Reliability
- Forced Air Cooling



E&I UltraX-20 Specifications*	
Class of Operation:	Class A
Frequency Coverage:	100 KHz –2 MHz
Rated Power:	20 Watts P1dB Compression
Saturated Power:	40 Watts
Power Gain:	43 dB nominal
Gain Flatness:	+/- 1.5 dB
Input Power for Rated Pout:	2 mW / 3dBm
Input Impedance / VSWR:	50 Ω / 1.5:1 maximum
Output Impedance / VSWR:	50 Ω / 2:1 maximum
Harmonic Level:	< -20 dBc @ 20W Pout
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.
Third Order Intercept:	IP3 ~ 56 dBm
AC Input:	100 – 240 VAC 47-63 Hz
Temperature Range:	0° – 40° C
Cooling:	Forced Air
Dimensions (H x W x D):	3.25 x 13.5 x 12.0 inches 82.55 x 342.9 x 304 mm
Weight:	8.5 lbs (3.9 Kg)
Connectors:	BNC



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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
0.000156	-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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