

UltraX-10 POWER AMPLIFIER

10 Watts RF Power For:

- Neuromodulation Applications



Featuring:

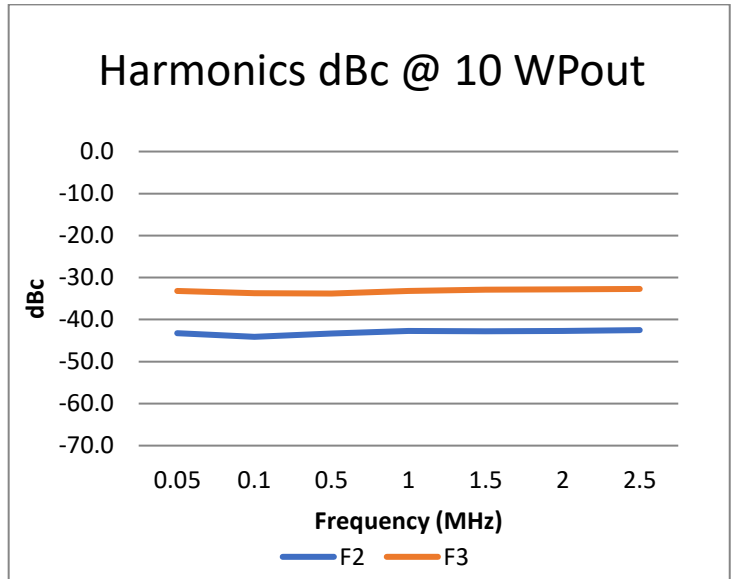
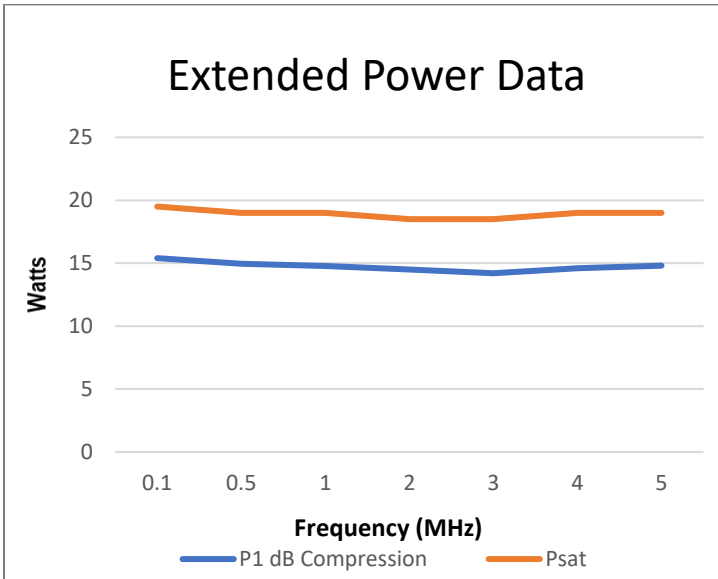
- 100 kHz – 2 MHz
- 10 W 1dB Compression
- Compact Design
- Solid State Reliability
- Forced Air Cooling
- Low Heat Dissipation



E&I UltraX-10 Specifications*	
Class of Operation:	Class A
Frequency Coverage:	100 kHz – 2 MHz
Rated Power:	10 Watts P1dB Compression
Saturated Power:	20 Watts
Power Gain:	40 dB nominal
Gain Flatness:	+/- 1.5 dB
Input Power for Rated Pout:	1 mW / 0dBm
Input Impedance / VSWR:	50 Ω / 1.5:1 maximum
Output Impedance / VSWR:	50 Ω / 2:1 maximum
Harmonic Level:	< -20 dBc @ 10W 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 8.25 x 11.63 82.55 x 209.55 x 295.4 mm
Weight:	5.5 lbs (2.27 Kg)
Connectors:	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
0.00040	-3.98	0.40	0.14	40	36.02	4.00	40.00	14.14
0.00063	-2.04	0.50	0.18	40	37.96	6.25	50.00	17.68
0.00090	-0.46	0.60	0.21	40	39.54	9.00	60.00	21.21
0.00141	1.48	0.75	0.27	40	41.48	14.06	75.00	26.52



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