

# A075 POWER AMPLIFIER

## 75 Watts RF Power For:

- Ultrasonic
- Testing
- Laboratory Applications



## Featuring:

- 300 KHz – 35 MHz
- Instantaneous Bandwidth
- 75 W 1dB Compression
- Solid State Reliability
- Forced Air Cooling

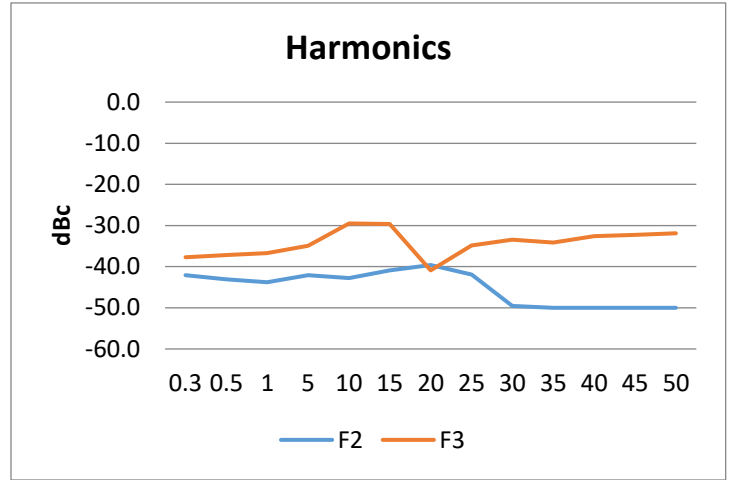
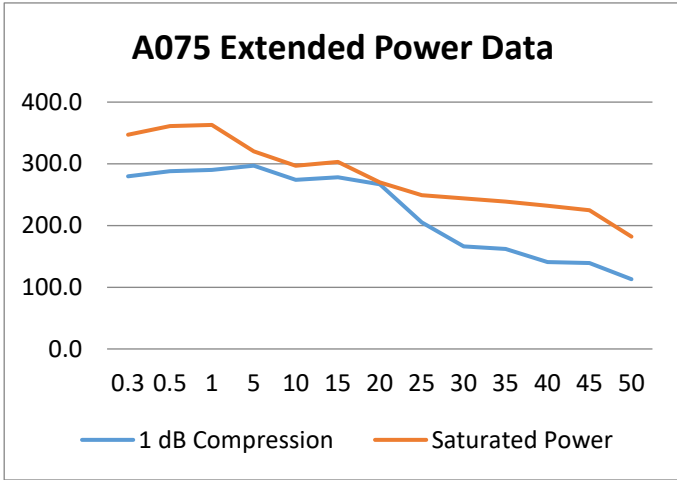


### E&I A075 Specifications\*

<b>Class of Operation:</b>	Class A
<b>Frequency Coverage:</b>	300 KHz – 35 MHz
<b>Rated Power:</b>	75 Watts P1dB Compression
<b>Saturated Power:</b>	100 – 150 Watts
<b>Power Gain:</b>	50 dB nominal
<b>Gain Flatness:</b>	+/- 1.5 dB
<b>Input Power for Rated Pout:</b>	0 dBm (1 mW)
<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>	< -25 dBc @ 75W 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 ~ 60 dBm
<b>AC Input:</b>	100 – 240 VAC 47 – 63 Hz 4.5 A @ 120 V 2.25 A @ 240 V
<b>Temperature Range:</b>	0° – 40° C
<b>Cooling:</b>	Forced Air
<b>Dimensions (H x W x D):</b>	5.5 x 18.8 x 21 inches 140.27 x 478(w/handles)x 535 mm
<b>Weight:</b>	35 lbs (16 Kg)
<b>Connectors:</b>	BNC
<b>Rack Mounting:</b>	Optional
<b>RF Input Signal:</b>	AM, FM, SSB, Pulsed



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Protection:

- Software Overdrive Limit: 125 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
0.0006	-2.50	0.30	0.17	50	47.50	56.25	150.00	53.03
0.0007	-1.25	0.55	0.19	50	48.75	75.00	173.20	61.24
0.0010	0.00	0.63	0.22	50	50.00	100.00	200.00	70.71



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