

# E&I A075 POWER AMPLIFIER

## 75 Watts RF Power For:

- Ultrasonics
- Laboratory Applications
- Induction Heating
- Plasma Applications



## Featuring:

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

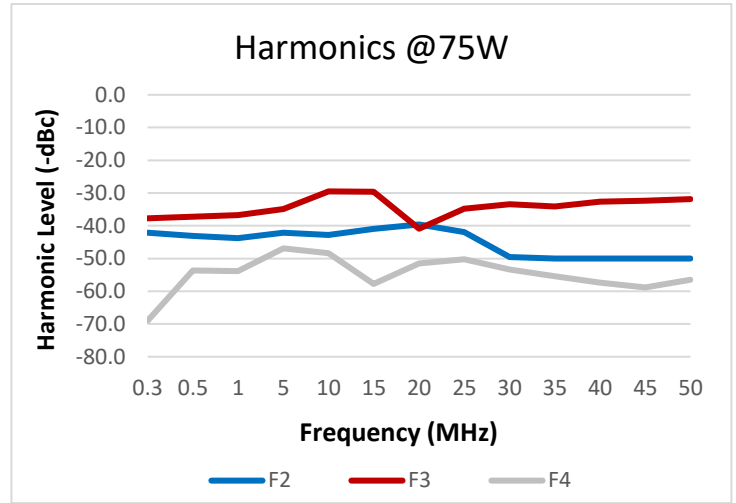
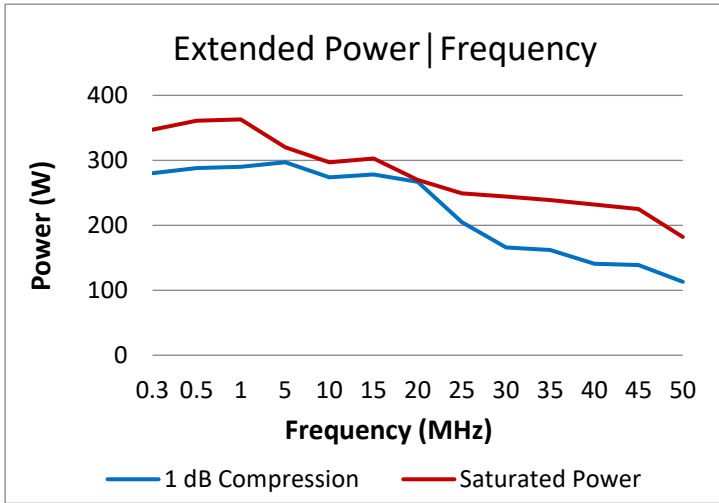


### E&I A075 Specifications\*

<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 $\Omega$ / 1.5:1 maximum
<b>Output Impedance / VSWR:</b>	50 $\Omega$ / 2:1 maximum
<b>Harmonic Level:</b>	< -25 dBc @ 75W Pout
<b>Ruggedness:</b>	$\infty$ :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>	5.12 x 16.5 x 20 inches 130 x 420 x 508 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 (Unit can withstand 100% Reflected Power)

## Performance into 50 Ω

Input Level				Amplifier Gain	Output Power			
Input Power		V p-p	V rms	Nominal	Output Power		V p-p	V rms
Watts	dBm	Volts	Volts		dBm	Watts	Volts	Volts
0.00031	-5.14	0.35	0.12	50	44.86	30.63	110.68	39.13
0.00076	-1.21	0.55	0.19	50	48.79	75.63	173.93	61.49
0.00076	-1.21	0.55	0.19	50	48.79	75.63	173.93	61.49
0.00123	0.88	0.70	0.25	50	50.88	122.50	221.36	78.26



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