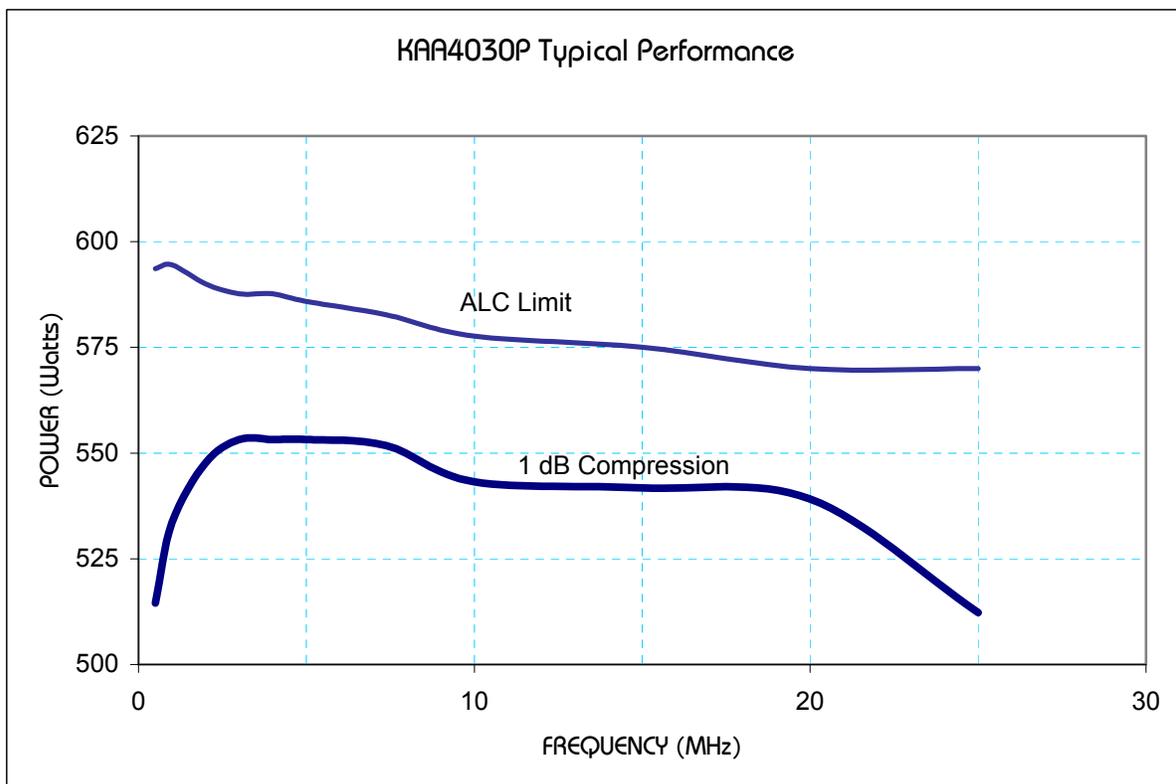


MODEL KAA4030P
500 WATTS PULSE
0.5 MHz - 25 MHz

The Model KAA4030P is a wideband RF pulsed amplifier and is capable of 500 Watts pulsed output power over the frequency range of 0.5 MHz to 25 MHz. Power gain is 57 dB minimum.

The system features: 500 Watts pulsed output power, Overdrive Protection (Automatic Level Control (ALC)); full VSWR Protection; two speed cooling fan, and Over-Temperature Protection, and RF gain control is available as an option.

The Model KAA4030P is contained in a single 8.75-inch standard 19 inch EIA chassis suitable for either tabletop or rackmount operation. Construction is completely modular; all subassemblies are removable. Highly reliable tube-axial fans provide forced-air cooling. The amplifier operates from 187-265 V_{AC}, 47-63 Hz line. The system may be placed in 'stand-by' mode with the BLANKING switch, which greatly reduces energy consumption and heat generation.



SPECIFICATIONS
Model KAA4030P

RATED POWER OUTPUT	500 Watts pulse
INPUT FOR RATED OUTPUT	1.0 mW maximum
POWER OUTPUT @ 2dB COMPRESSION MAX.	500 Watt pulse minimum
FLATNESS	± 1.5 dB
DUTY CYCLE	35%
PULSE WIDTH	1 ms maximum
PULSE DROOP	5% maximum
SIGNAL RISE/FALL TIME.....	5 µs maximum
GATING SPEED.....	≤2 µs
GATING ON/OFF RATIO	65 dB minimum
GATING SIGNAL	TTL, high = enabled (5K input imp.)
NOISE FLOOR (gated off).....	15 dB typical above thermal noise
FREQUENCY RESPONSE.....	0.5 MHz - 25 MHz broadband
GAIN	57 dB typical
GAIN ADJUSTMENT RANGE.....	20 dB typical (optional)
INPUT IMPEDANCE.....	50 Ohm nominal
OUTPUT IMPEDANCE	50 Ohm nominal
MISMATCH TOLERANCE	3:1
PROTECTION	over-temperature
MODULATION CAPABILITY.....	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
HARMONIC DISTORTION	-11 dBc typical
SPURIOUS OUTPUTS.....	-70 dBc maximum
CONTROLS.....	[AC LINE]ON/OFF
INDICATORS	SYSTEM, TEMP, VSUR
RF CONNECTORS	Type N female
REMOTE INTERLOCK	BNC female
OPERATING TEMPERATURE	-10 to 40 °C
COOLING.....	Forced air (self contained fans)
PRIMARY POWER	187 - 265 V _{ac} , 47 - 63Hz, 500 W average
Size (H X W X D).....	8.75 x 19 x 21 in.; 222 x 483 x 533 mm.
Weight (approx.).....	62 lb; 28.2 kg.

MODEL CONFIGURATIONS

MODEL NUMBER	OPTION
KAA4030P	Standard
KAA4030PM1	Added Gain Control