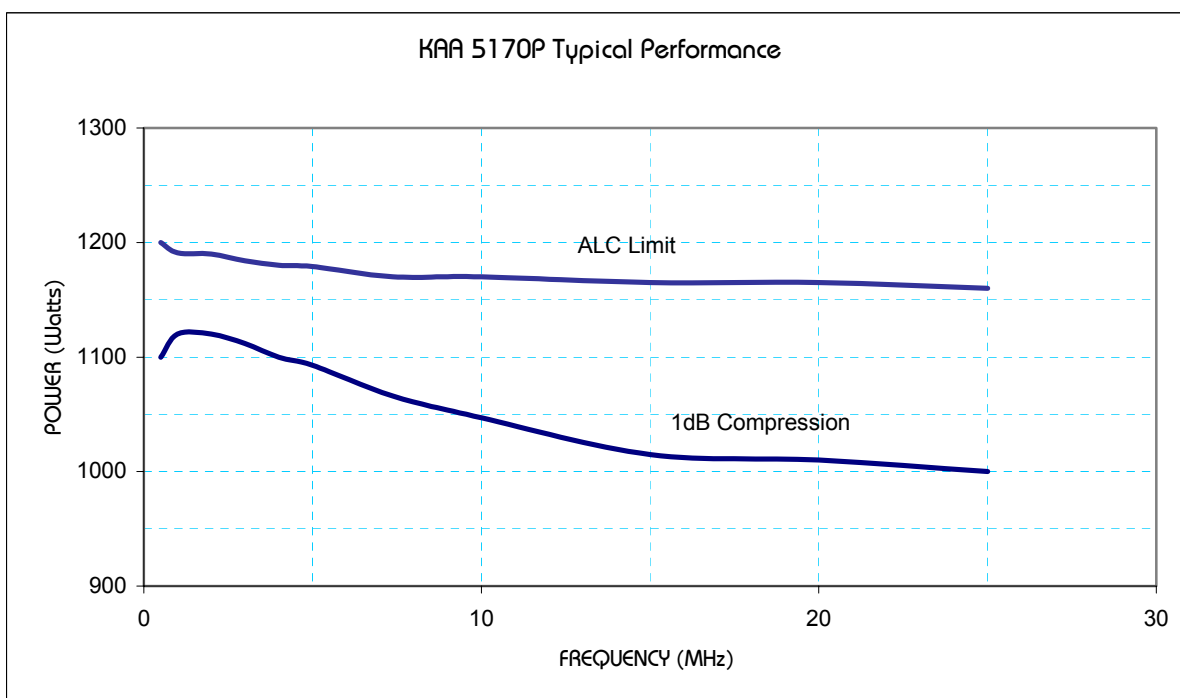


**MODEL KAA5170P**  
**1000 WATTS PULSE**  
**0.5 MHz - 5.5 MHz**

The Model KAA5170P is a wideband RF pulse amplifier capable of 1,000 Watts from 0.5 to 5.5 MHz. The amplifier requires a maximum 0dBm (1mW) to achieve this power level. This is a power gain of 60 dB minimum. The amplifier is fully gated and blanked to virtually eliminate the amplifier's output noise (-154dBm/Hz) when gated off.

The system features: 1,000 Watts pulsed output power; Automatic Level Control (ALC); RF gain control is available as an option; overdrive protection; full VSWR protection; input blanking; two speed fan operation for minimal noise reduction in most circumstances, and over-temperature protection. Simple operation requires no operator interaction allowing for completely remote operation

The Model KAA5170P is contained in a single 8.75-inch Standard 19 inch EIA chassis suitable for either tabletop or rack mount operation. Construction is completely modular; all subassemblies are removable. Highly tube-axial fans provide forced-air cooling. The amplifier operates from 187-265 V<sub>AC</sub>, 47-63 Hz line.



**SPECIFICATIONS**  
**Model KAA5170P**

RATED POWER OUTPUT (P1dB).....	1000 Watts pulse
INPUT FOR RATED OUTPUT .....	1.0 mW typical
FLATNESS .....	± 1.0 dB maximum
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 - 5.5 MHz broadband
GAIN .....	60 dB typical
GAIN ADJUSTMENT RANGE.....	20 dB typical (optional)
INPUT IMPEDANCE.....	50 Ohm nominal
OUTPUT IMPEDANCE .....	50 Ohm nominal
MISMATCH TOLERANCE .....	6:1
PROTECTION .....	VSWR, over-temperature, overdrive
MODULATION CAPABILITY.....	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
HARMONIC DISTORTION .....	-12 dBc typical
SPURIOUS OUTPUTS.....	-70 dBc maximum
CONTROLS.....	[AC LINE] ON/OFF
INDICATORS .....	SYSTEM, TEMP, VSWR
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 <sub>rms</sub> , 47 - 63Hz, 600 W average
Size (H X W X D).....	8.75 x 19 x 21 in.; 222 x 483 x 533 mm.
Weight (approx.).....	70 lb; 32 kg.

**MODEL CONFIGURATIONS**

MODEL NUMBER
KAA5170P