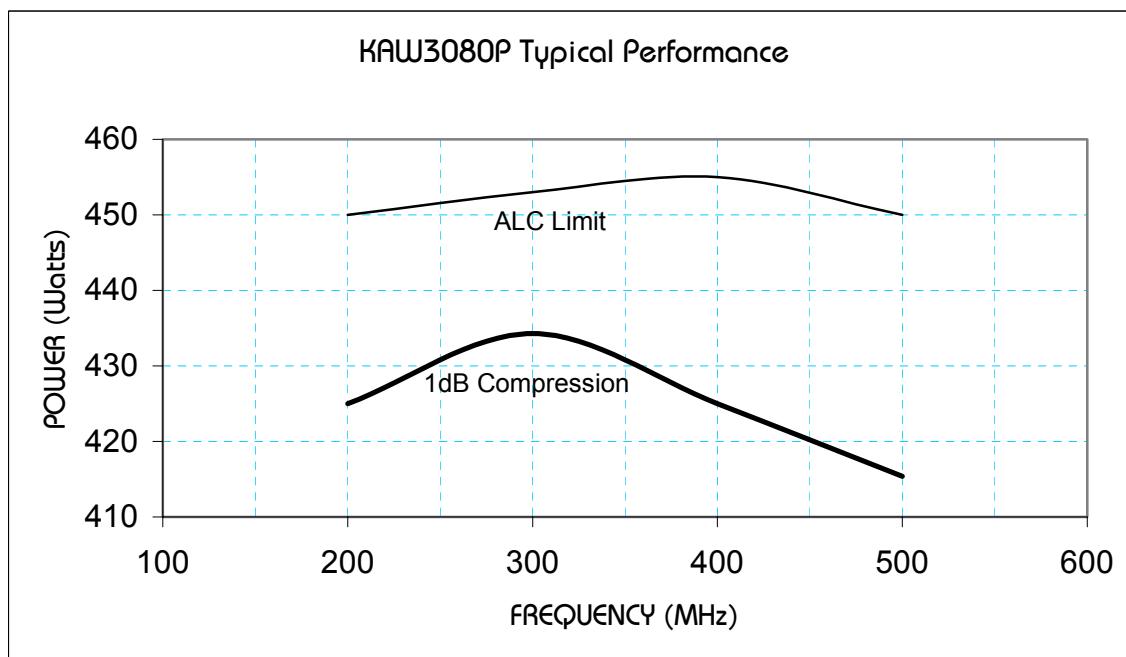


**MODEL KAW3080P
400 WATTS PULSE
200 MHz - 500 MHz**

The Model KAW3080P is a wideband RF pulse amplifier. The KAW3080P amplifier is a class AB linear pulse amplifier and provides 400 Watts pulsed output power into a 50-Ohm load over the frequency range of 200 MHz to 500 MHz with a minimum power gain of 56 dB. GPIB control is possible with the optional IEEE488.2/RS232 Interface Controller Module.

The system features forward and reflected power indication on a front panel-mounted, analog meter; Automatic Level Control (ALC); RF gain control; overdrive protection; full VSWR protection; input blanking, and over-temperature protection. These features, plus remote power on/off control, are also accessible for remote operation through a 25-pin, D-subminiature connector. For a detailed description of these features refer to "SPECIAL FEATURES – KAA & KAW-SERIES SINGLE BAND RF POWER AMPLIFIERS".

The Model KAW3080P is a 19-inch rack-mount unit, 8 $\frac{3}{4}$ inches high and 21 inches deep. Construction is modular and all subassemblies are removable. Forced-air cooling is provided by highly reliable tube-axial fans. The unit operates from single-phase 95-265 V_{AC}, 47-63 Hz. The system may be placed in 'stand-by' mode with the BLANKING switch, which greatly reduces energy consumption and heat generation.





SPECIFICATIONS
Model KAW3080P

RATED POWER OUTPUT	400 Watts pulse
INPUT FOR RATED OUTPUT	1.0 mW maximum
POWER OUTPUT @ 1dB COMPRESSION	400 Watts minimum
FLATNESS	± 1.5 dB maximum unleveled, ± 0.5 dB leveled
DUTY CYCLE	20%
PULSE WIDTH	50 ms maximum
PULSE DROOP	3% maximum
PULSE OVERSHOOT	5% maximum
SIGNAL RISE/FALL TIME	300 ns maximum
GATING SPEED	2 µs maximum
GATING ON/OFF RATIO	70 dB minimum
GATING SIGNAL	TTL, high = enabled (5K input imp.)
NOISE FLOOR (gated off)	20 dB typical above thermal noise
FREQUENCY RESPONSE	200 MHz - 500 MHz instantaneously
GAIN	56 dB minimum
GAIN ADJUSTMENT RANGE	20 dB typical
INPUT IMPEDANCE	50 Ohm nominal
OUTPUT IMPEDANCE	50 Ohm nominal
MISMATCH TOLERANCE	infinite
PROTECTION	VSWR, over-temperature, overdrive
MODULATION CAPABILITY	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
HARMONIC DISTORTION	-30 dBc maximum
SPURIOUS OUTPUTS	-70 dBc maximum
FRONT PANEL METER	0 - 400 Watt forward power, top scale % limit SET point reflected power, bottom scale
CONTROLS	[AC LINE]ON/OFF, [RF CTL]ON/OFF (blanking) [METER]FWD/REFL, [ALC]FAST/SLOW (Autom. Level Control) [VSWR]RESET MAN/AUTO, ALC, RF GAIN
INDICATORS	SYSTEM, BLANKING, [METER]MODE, [ALC] MODE, VSWR, TEMP, REMOTE ACTIVE
REMOTE INTERFACE (optional)	IEEE-488.2 & RS-232
RF CONNECTORS	Type N female
REMOTE CONTROL	IEEE488.2: 24-pin female, RS-232: 25-pin D-Subminiature female
REMOTE INTERLOCK	BNC female
OPERATING TEMPERATURE	-10 to 40 °C
COOLING	Forced air (self contained fans)
PRIMARY POWER	95 - 265 V _{AC} , 47 - 63Hz, single-phase, 800 VA maximum
SIZE (W x H x D)	48.3 x 17.8 x 50.8 cm, 19 x 7 x 20 in.
WEIGHT	19.1 kg, 42 lb.

MODEL CONFIGURATIONS

MODEL NUMBER	OPTIONS
KAW3080P	Standard
KAW3080PM1	IEEE488.2/RS232