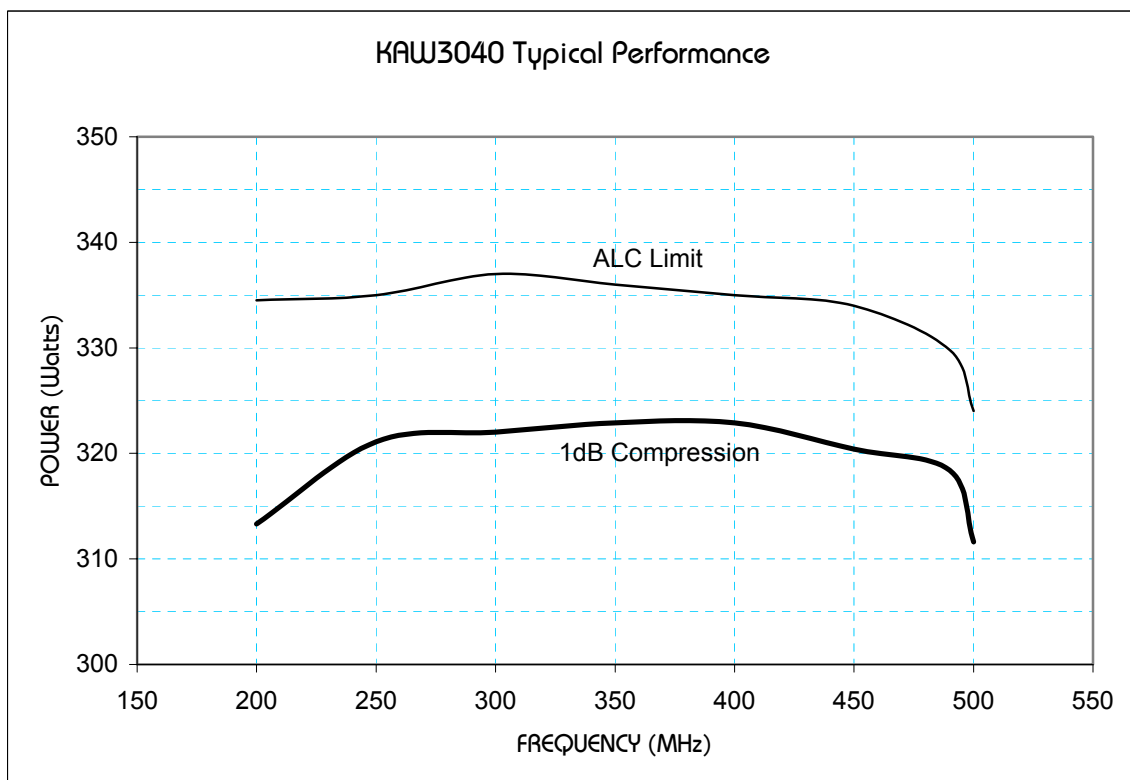


**MODEL KAW3040**  
**300 WATTS CW**  
**200 MHz - 500 MHz**

The Model KAW3040 is a Class AB wideband RF power amplifier system delivering in excess of 300 Watts CW power into a 50-Ohm load over the frequency range of 200 MHz to 500 MHz. Power gain is a minimum of 54 dB. GPIB control requires 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. On the basic model these features, plus remote power on/off control, are accessible for hard-wire 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 system comprises a Power Controller and a Power Amplifier Unit. These are intended to be mounted into a standard, 19-inch equipment rack and require 14 inches of panel space. The units are designed to be installed on optional telescoping slides. The system operates from 187-265 V<sub>AC</sub> 40-63 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 KAW3040**

RATED POWER OUTPUT .....	300 Watts
INPUT FOR RATED OUTPUT .....	1.0 mW maximum
POWER OUTPUT @ 1dB COMPRESSION .....	300 Watts minimum
FLATNESS .....	± 2.0 dB maximum unleveled, ± 0.5 dB leveled
FREQUENCY RESPONSE .....	200 MHz - 500 MHz instantaneously
GAIN .....	54 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 .....	-20 dBc maximum
SPURIOUS OUTPUTS .....	-70 dBc maximum
FRONT PANEL METER .....	0 - 300 Watt forward power, top scale % limit SET point reflected power, bottom scale
CONTROLS .....	[AC LINE]ON/OFF, [RF CTRL]ON/OFF (blanking) [METER]FLWD/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 .....	187 - 265 V <sub>r</sub> , 47 - 63Hz, single-phase, 1300 VA maximum
SIZE (W x H x D) Total with units stacked .....	48.3 x 30.5 x 68.6 cm, 19 x 12 x 27 in.
WEIGHT (Total) .....	32 kg, 70 lb.

**MODEL CONFIGURATIONS**

MODEL NUMBER	OPTION
KAW3040	Standard
KAW3040M1	IEEE488.2/RS232