MODEL KAA2026
125 WATTS CW
700 KHz - 3 MHz

The Model KAA2026 is a special-purpose, wideband RF power amplifier for signals in the 700 KHz to 3 MHz frequency range. No tuning, band switching, or adjustments of any kind are required to operate this unit. Power output is in excess of 125 Watts into a 50-Ohm load. Power gain is a minimum 53 dB making the amplifier compatible with drive power levels provided by most commercially available signal generators.

Construction of this model is in a 5¼-inch high cabinet, 16 inches deep, exclusive of handles, and 10.5 inches wide, with mounting flanges. Input and output connectors are located on the front. Forced-air cooling.

Protection against excessive heat rise of the amplifier module heatsink is by a temperature-sensing switch that interrupts the gate bias supply to the amplifier devices when activated. Operation resumes automatically when temperature has returned to normal operating temperature.

SPECIFICATIONS

RATED POWER OUTPUT	125 Watts	
INPUT POWER	2.0 mW maximum	
FLATNESS	± 0.5 dB	0.7 – 3 MHz,
	± 0.2dB	0.8 – 0.9MHz
FREQUENCY RESPONSE	700 KHz - 3 MHz instantaneously	
GAIN	54 dB ± 1dB maximum	
INPUT/OUTPUT IMPEDANCE	50 Ohm nominal	
MISMATCH TOLERANCE	infinite @ 125W, 3:1 @ 200w	
PROTECTION	Over-temperature	
CONTROLS	Blanking via fault connector, Front Panel Power Switch	
INDICATORS	TEMP FAULT; via fault connector, Front Panel POWER, RF ACTIVE	
MODULATION CAPABILITY	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal	
HARMONIC DISTORTION (Maximum)	–21 dBc @ 125W	
	-26 dBc @ 60W	
	-32 dBc @ 10W	
SPURIOUS OUTPUTS	–60 dBc below rated output maximum	
BLANKING TIME	OFF Time	0 – 100 µS
	ON Time	1.0 – 2.0 mS
RF CONNECTORS	Type BNC female	
OPERATING TEMPERATURE	–10 to 40 °C	
COOLING	Forced air (self contained fan)	
PRIMARY POWER	95-264VAC, 47-63Hz, 670VA maximum	
SIZE (W x H x D)	13.3 x 26.7 x 40.7 cm, 5¼ x 10½ x 14.5 in.	

WEIGHT.....7.7kg, 17 lb.

DOC # 7-98-890-001
REV E

FAULT CONNECTOR PIN CONFIGURATION

PIN	DESCRIPTION
2	BLANKING
3	BLANKING GND RETURN
8	OVERTEMP/POWER
9	OVERTEMP/POWER GROUND RETURN