



Model 23-11A 23 cm, 50 dB, 10 W RF LINEAR POWER AMPLIFIER



The KH6HTV-VIDEO Model 23-11A, RF Linear Power Amplifier is for use in the amateur radio 23 cm band. It can produce a 3 Watt (avg), high-definition (1080p), digital TV signal. It can also be used to produce a 30W, FM/CW signal or 10 Watt (pep), analog, TV signal. The rf power output can be lowered -5dB or -10dB for reduced DC current draw with the front panel rotary switch.

PARAMETER	Typical Performance	Notes
Output Power (Digital TV)	3 Watts (+35dBm) also 1 W & 300 mW	rms, avg. power
Output Power (analog TV)	10 Watts PEP (+40 dBm) also 3 Watt or 1 Watt	peak power on sync tips adjustable in 5dB steps
Output Power, P(-1dB)	20 Watts	-1dB gain compression
Output Power (FM, CW)	30 Watts	saturated output
Output Power vs. Supply Voltage	+35 dBm @ 12 - 13.8 Vdc +34 dBm @ 10 Vdc	DTV
RF Power Amplifier Gain	50 dB, nominal	
Amplifier Gain Flatness	± 2 dB	1240 - 1300 MHz
Amplifier Max Input Power	50 mW, +17 dBm	
LSB Rejection (analog VUSB)	better than -20dB	LSB/USB ratio
Spectrum Regrowth (Digital TV)	-30 dB	at +35dBm
Duty Cycle	100 %	heat sink & cooling fan included
DC Supply Voltage	13.8 Vdc	10 to 15 Vdc
DC Current @ 13.8 Vdc	4, 2 or 1.2 Amps (DTV) 8 Amps (max.sat. FM)	HI / MED / LO power
Controls - Rotary Switch & Toggle Switch	OFF - HI - MED - LOW PTT ON-Stand-By - EXT	rf power adjustable in 5 dB steps
RF Connectors	SMA input & N output	
Dimensions & Weight	5.5" x 4.5" x 5.0"	2 lbs
Accessories Included	instruction manual & test report	

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NOTICE: *This linear amplifier is not FCC type accepted. Therefore, the use of this amplifier is only legal in the USA, amateur radio, 23 cm band (1240 - 1300MHz). Owners and operators of this amplifier must be licensed amateur radio operators.*