



The KH6HTV VIDEO Model 70-LNA is a low noise Pre-Amplifier for the 70 cm (420-450 MHz) amateur radio band. The noise figure is a 0.8 dB with a gain of 18 dB. It's steep pass-band/rejection, provides excellent protection against out of band high power signals. -1dB gain compression of a high +19 dBm.

## Model 70-LNA 70 cm, 0.8 dB NF Pre-Amplifier



S21 70cm Gain 335-555MHz, 3dB/div



S21 Gain sweep from 0 to 1.5GHz, 10dB/div



PARAMETER	Typical Performance	Notes
Frequency Range	420-450 MHz	70 cm amateur radio band
Noise Figure	0.8 dB	measured on HP-8970A
Gain, S21	18 dB	
Bandwidth	90 MHz	-3 dB BW
Out of Band Rejection	-50dB (2m), -60dB (33 & 23cm)	relative to 70cm gain
Max. Output Power	+19 dBm	at -1 dB gain compression
DC Supply Voltage	+12 Vdc, nominal at 100 mA	11-15 Vdc range
RF Connectors	SMA (f)	
DC Power Connector	Feed-Thru, By-Pass Capacitor	Optional -- DC feed via RF output
Dimensions	1.5" x 3.6" x 1.25"	fully shielded, die-cast enclosure
Test Report	included	includes S21, BW & NF