

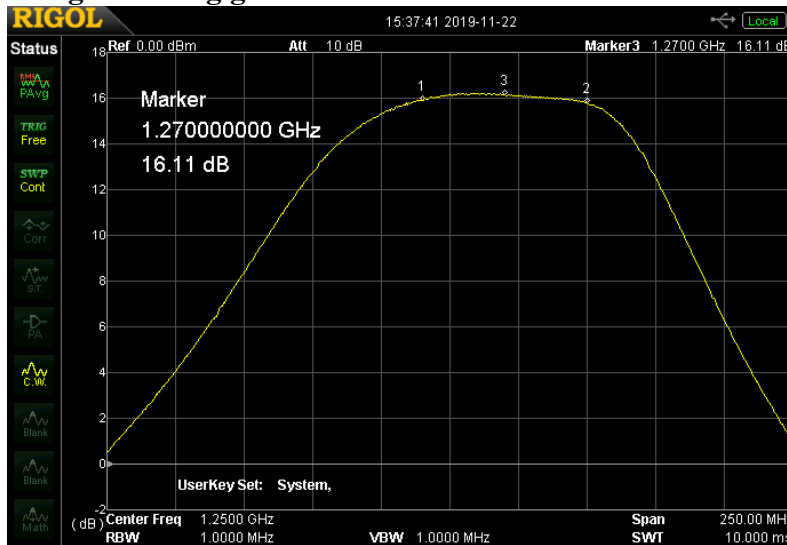


Model 23-4LNA 23 cm Pre-Amplifier

The KH6HTV VIDEO Model 23-4LNA is a low noise Pre-Amplifier for the 23 cm (1240 - 1300 MHz) amateur radio band. The typical noise figure is 0.9 dB with a gain of 16 dB. This amplifier has decent return loss on both input and output. It is also stable under widely varying antenna impedances.



Available options: (1) It can be supplied tuned to any center frequency from 800 MHz to 1.5 GHz including 33 cm band. (2) DC powered via output coax connector & (3) 2ed gain stage boosting gain to 34 dB.



S21 sweep from 1.0 to 1.5 GHz. 2 dB/div & 25 MHz/div. markers show 23 cm band edges

PARAMETER	Typical Performance	Notes
Frequency Range	1240 - 1300 MHz	23cm amateur radio band optional - tuned to any center freq from 800 MHz to 1.5GHz
Noise Figure	0.9 dB, typical	
Gain, S21	16 dB	34 dB optional (2 stage amplifier)
Bandwidth	105 MHz	-3 dB
Max. Output Power	+19 dBm	at -1 dB gain compression
Input Return Loss, S11	-10 dB	
Output Return Loss, S22	-10 dB	-15 dB with 2 stages
DC Supply Voltage	+12 Vdc, nominal at 40 mA	+8 to +15 V range (80ma 2 stages)
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