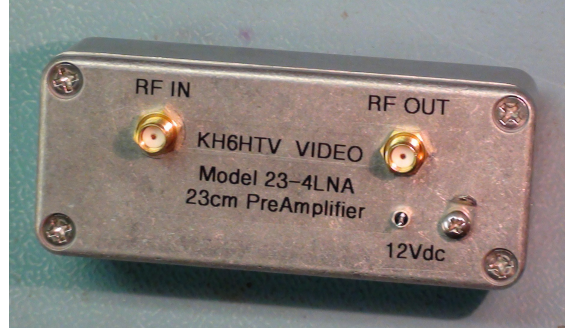




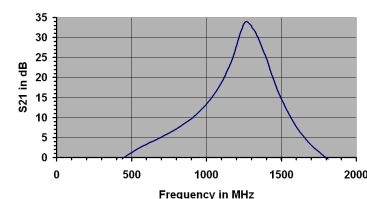
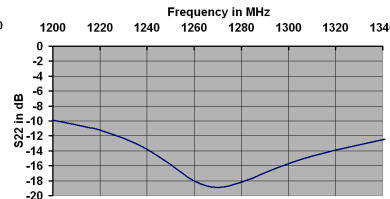
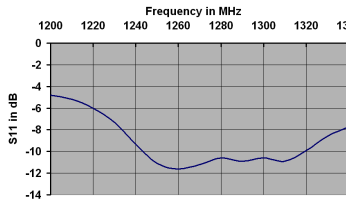
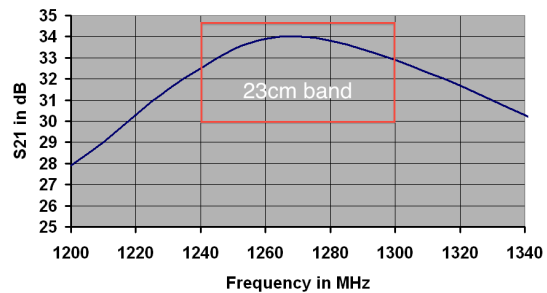
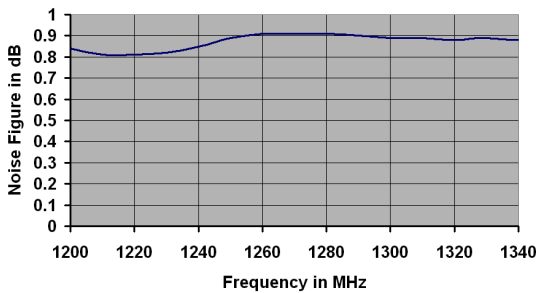
Model 23-4LNA 23cm Pre-Amplifier

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 34dB (14dB optional). This amplifier has good return loss on both input and output. It is also stable under widely varying antenna impedances.

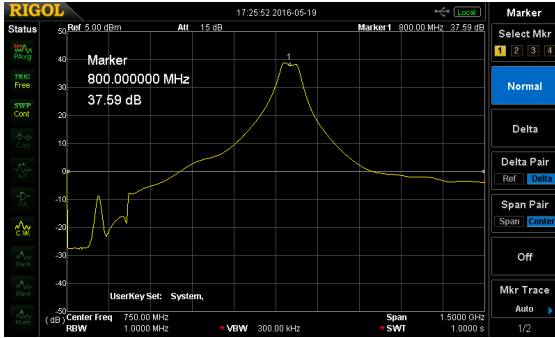


Available, no cost options include: DC power feed via output coax, only 1 gain stage (14dB), and it can

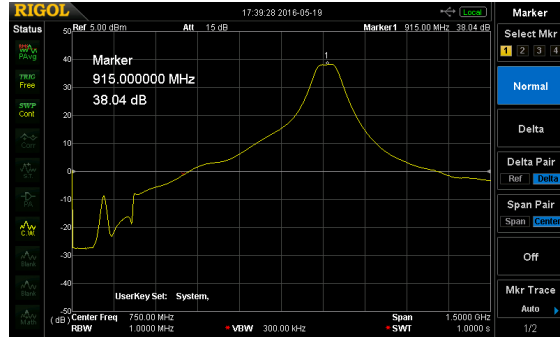
also be supplied tuned to any center frequency from 800MHz to 1.5GHz, including the 33cm band.



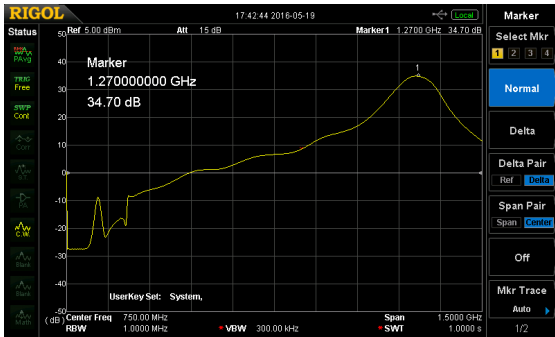
PARAMETER	Typical Performance	Notes
Frequency Range	1240 - 1300 MHz	23cm amateur radio band optional - tuned to any center freq from 800 MHz to 1.5GHz
Noise Figure	0.9 dB, typical	
Gain, S21	34 dB (2 stage amplifier)	14dB optional (1 stage amplifier)
Bandwidth	105 MHz	-3 dB
Max. Output Power	+19 dBm	at -1 dB gain compression
Input Return Loss, S11	-11 dB	
Output Return Loss, S22	> -15 dB	
DC Supply Voltage	+12 Vdc, nominal at 80 mA	+8 to +15 V range (40ma 1 stage)
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



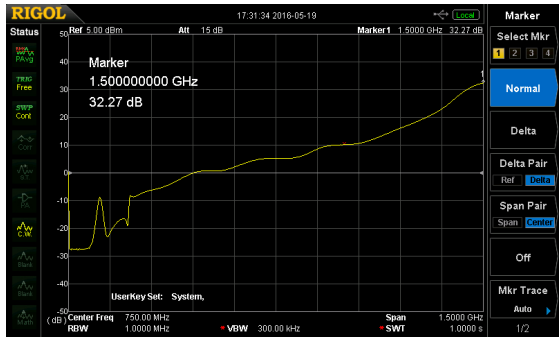
tuned to 800MHz, BW = 75MHz



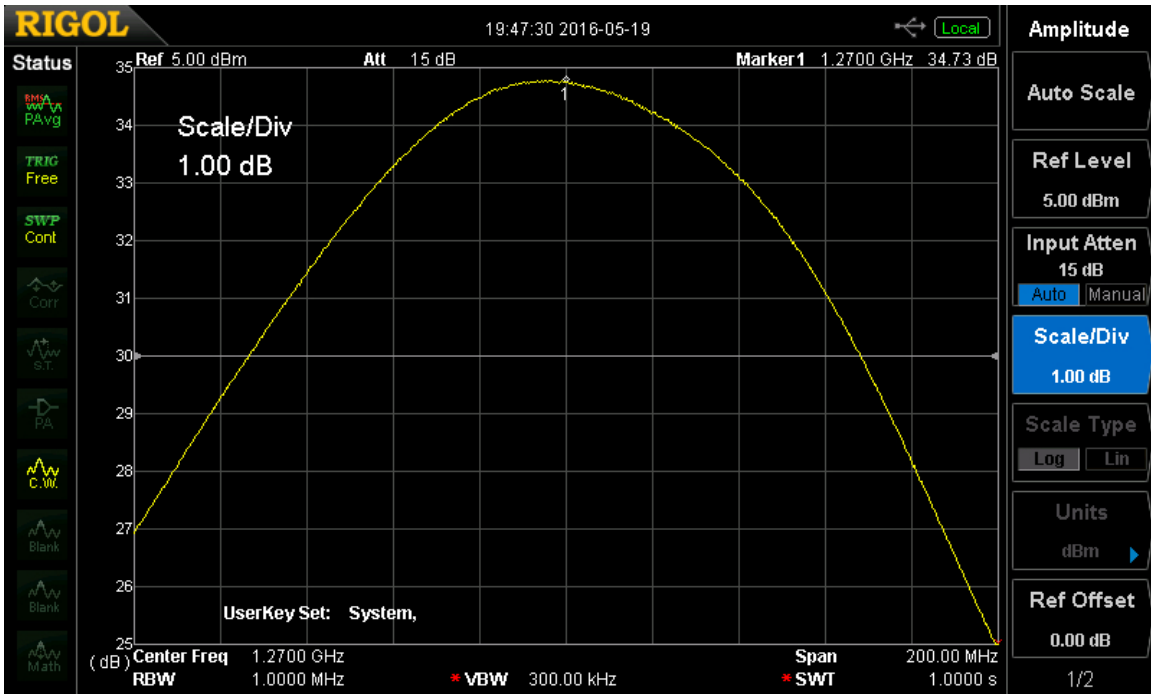
tuned to 33cm, 915MHz, BW = 85MHz



tuned to 23cm, 1270MHz, BW=110MHz



tuned to 1.5GHz



tuned to 23cm band, center freq. = 1270MHz, -3dB BW = 110 MHz