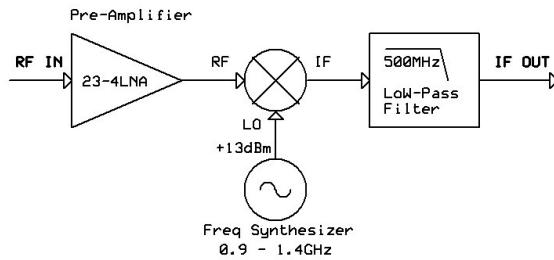




Model 23-7 23 cm DOWN - CONVERTER



The KH6HTV VIDEO Model 23-7 is a high performance, 23cm Down-Converter with 20 dB of conversion gain. The front end pre-amp is a two stage version of the model 23-LNA. It has a flat frequency response across the 23cm band (1240-1300 MHz) with a 1.1 dB noise figure. The double balanced Schottky diode mixer features a high level +14 dBm LO drive. The LO is provided by an easily re-programmable, low phase noise, frequency synthesizer. A three position, front panel toggle switch allows the selection of three, pre-programmed, LO frequencies. (*) The 23-7 is ideal for down converting all types of signals, such as CW, AM, FM, SSB, analog FM-TV or VUSB-TV or Digital TV signals.

PARAMETER	Typical Performance	Notes
RF Input Frequency Range	1240 - 1300 MHz	23 cm amateur radio band
Noise Figure	1.1 dB, typical	
Conversion Gain	20 dB, nominal	RF in to IF out
RF Pre-Amp Bandwidth	130 MHz	-3 dB
IF Output Bandwidth	5 to 350 MHz	-3 dB
Max. IF Output Power	-3 dBm	at -1 dB gain compression
LO range	0.95 to 1.4 GHz	frequency synthesized
LO Frequencies	3 selectable by front panel switch	easily reprogrammed by user
DC Supply Voltage	+12 Vdc, nominal at 360 mA	+10 to +15 V range
RF & IF Connectors	SMA (f)	on rear panel
Dimensions & Weight	4.2" x 1.8" x 7.4" (w x h x d)	1.1 lbs
Included Accessories	instruction manual & test report	

(*) note: Specify desired LO frequencies when ordering. For 23 cm ATV, an LO of 1066 MHz is suggested. This down-converts to VHF-hi band TV channels 7-13 (174 - 210 MHz)