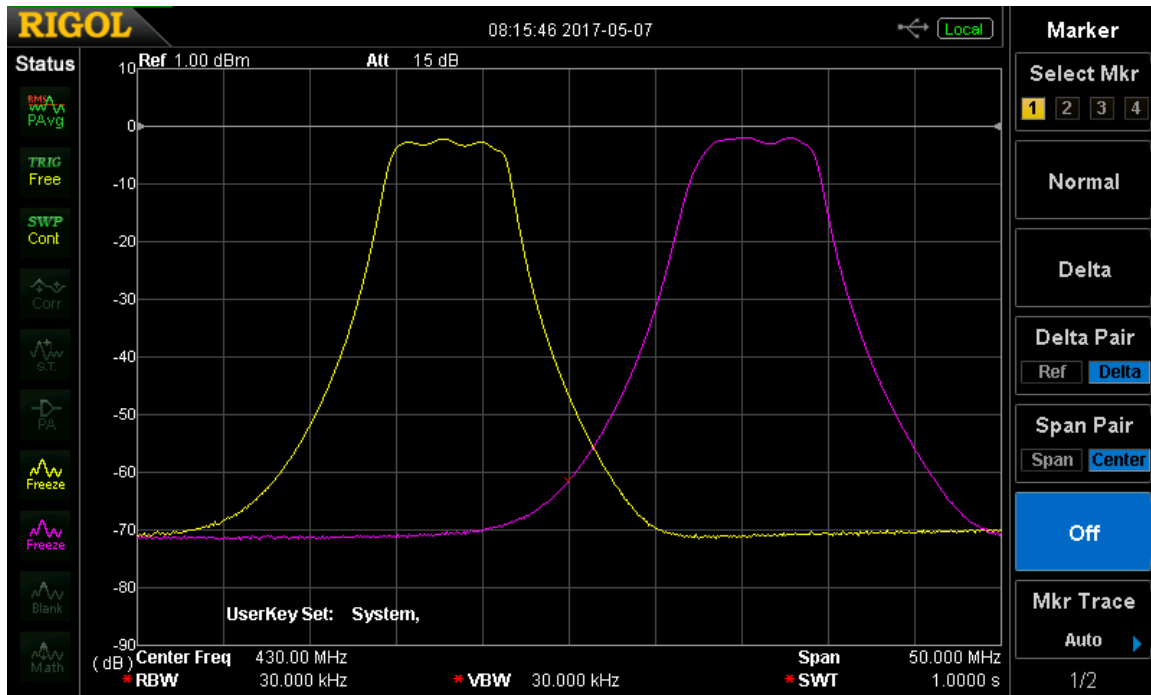
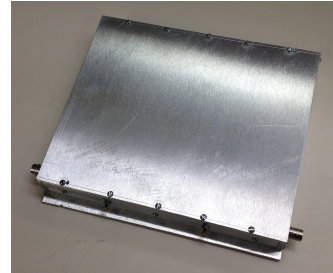




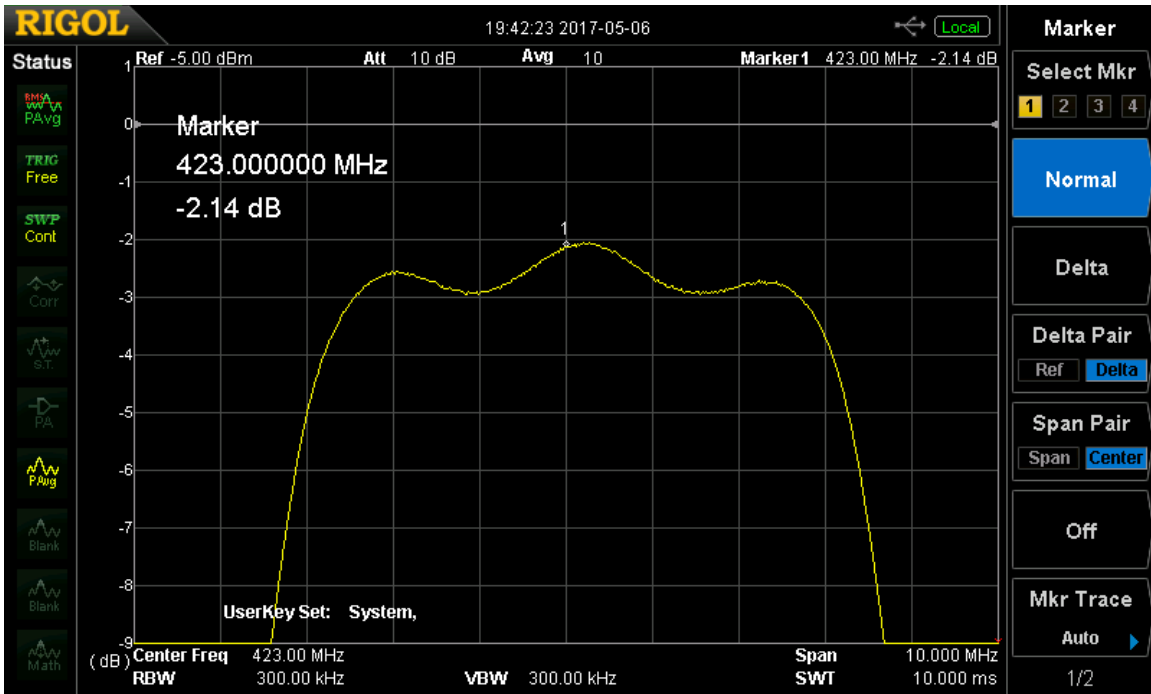
## Model 70-BPF-5P-6BW-XXX 70 cm, Inter-Digital Band-Pass Filters

The KH6HTV VIDEO Models 70-BPF-5P-6BW-XXX are inter-digital, Band-Pass Filters. The standard -3dB bandwidth is 6 MHz for use in amateur television service. They are ideal for use in a Television Repeater, either for analog or digital TV. The filter is a five pole, Chebyshev design with a flat pass-band and steep stop-band skirts. When ordering specify the desired center frequency, XXX.

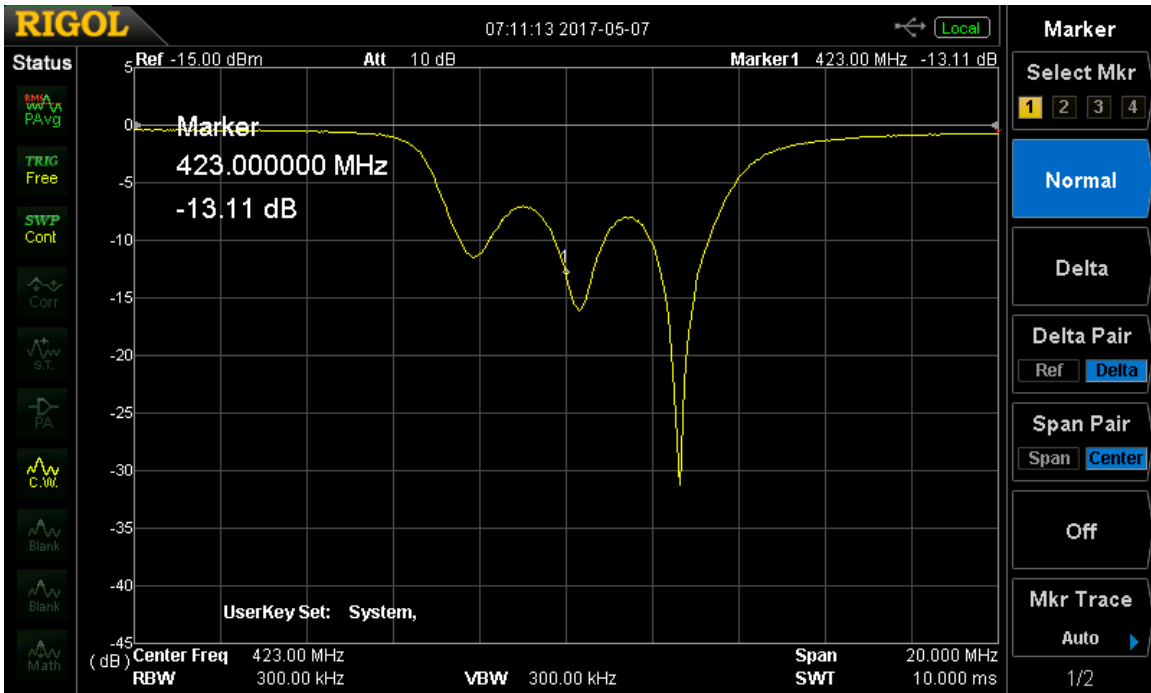


**S21 (insertion loss) of a pair of TV Channel Filters. Ch 57 (yellow) & Ch 60 (magenta)**  
Center freq = 430MHz, span = 50MHz (5MHz/div), Vert = 10dB/div. Note: noise floor is -70dB.

PARAMETER	Typical Performance	Notes
Center Frequency	423 to 441 MHz	specify when ordering
Standard ATV Channels	57 (420-426 MHz), 58 (426-432 MHz) 59 (432-438 MHz) & 60 (438-444 MHz)	center frequencies of: 423, 429, 435 & 441 MHz
Bandwidth	6 MHz	-3 dB
Passband Insertion Loss	2 dB	see typical plots
Stopband Rejection on adjacent channels	> 33 dB > 65 dB > 80 dB	$f_c \pm 6$ MHz $f_c \pm 12$ MHz $f_c \pm 18$ MHz
Size	7.4" x 8.4" x 1.2" plus mounting flange	size varies with frequency.
RF Connectors	BNC jacks (female)	
Documentation	Test Report	includes freq. response photos



**Typical Pass-Band S21, Insertion Loss, Swept Frequency Response  
1dB/div & 1MHz/div**



**Typical S11, Return Loss, Swept Frequency Response  
5dB/div. & 2MHz/div.**