

CHEAP FILTER UPDATE

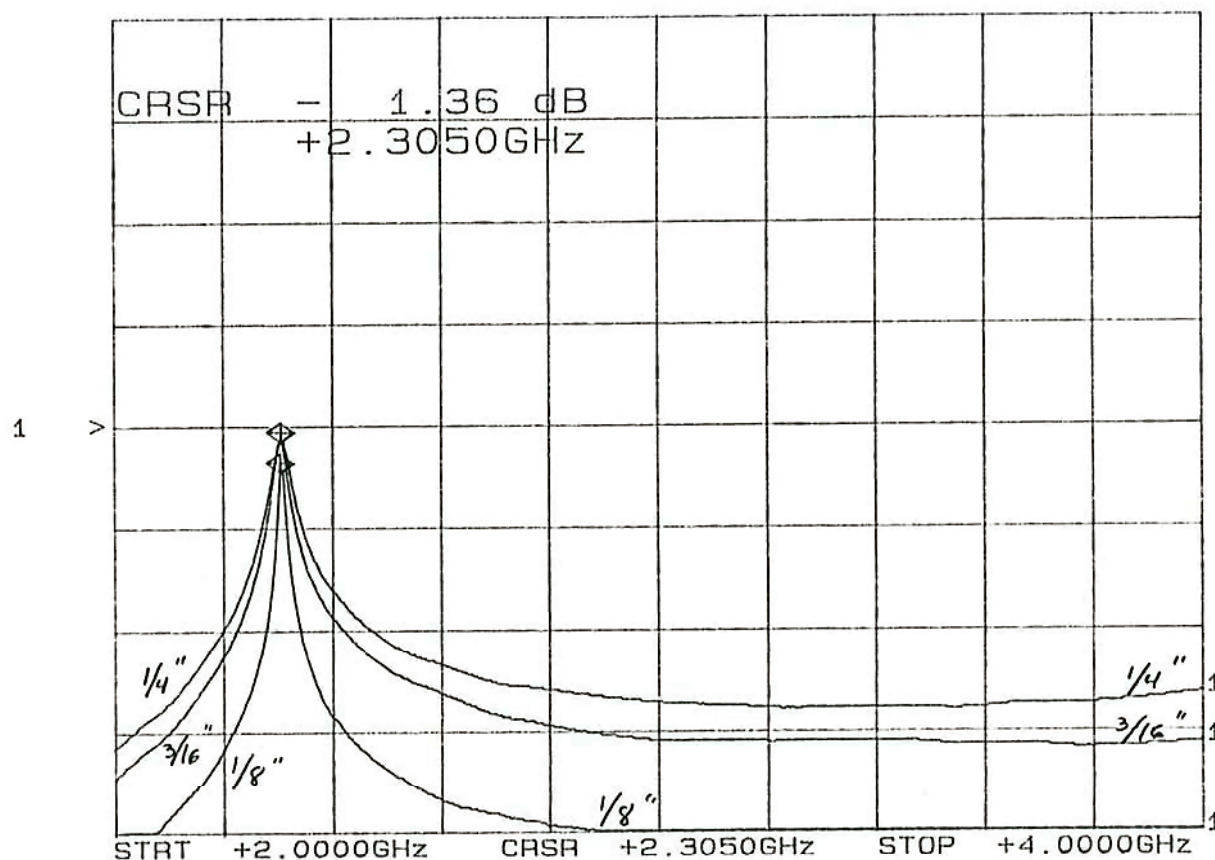
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Since my Cheap Microwave Filter article was submitted to the ARRL for the publishing of your proceedings, I've had a chance (thanks to WB5LUA) to try out the filters on some really nice equipment. It was really interesting to watch a felt pen trace out curves I had spent hours plotting a point at a time on 30 yr. old stuff.

1 Inch Filter: I quickly noticed how close to 2304 MHz the filter was tuning. With a slightly longer tuning screw protruding about 7/8" into the cavity, they hit 2304 MHz. First class plots are provided for 2.3, 3.4, and 5.7 GHz.

CH1: A -M - 3.36 dB
10.0 dB/ REF - .00 dB



1/2 Inch Filter: Again I noticed how far down in frequency the filter tuned. A slightly longer screw protruding about a 1/2" into the filter resonated on 5760 MHz. I don't have a family of bandpass plots at 5.7 GHz, but the Q's were very high and the skirts quite steep.