



# Viewer License Agreement

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Software only: [GNU General Public License 3.0 \(GPL\)](#)

Hardware (w/ || w/o software): Tucson Arizona Packet Radio TAPR [PDF](#) [ODT](#) [TXT](#)

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## A *Bluetooth®* Speaker Too

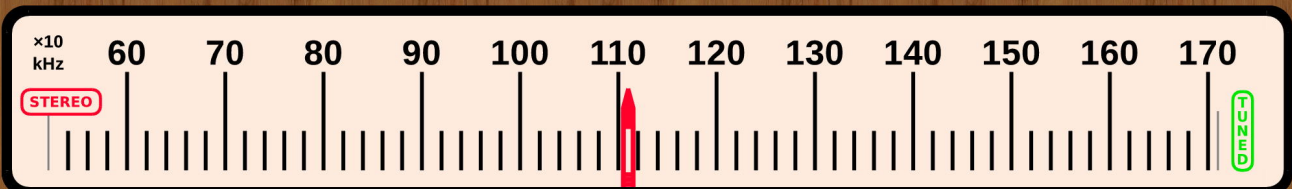
**Trade Secret:  
Proprietary  
& Confidential**

Neo   
Retro™

Super  
AM



Cat's Eye



Volume



Bass



Noise Reduction  
Bandwidth



Treble



Tuning



Expander %

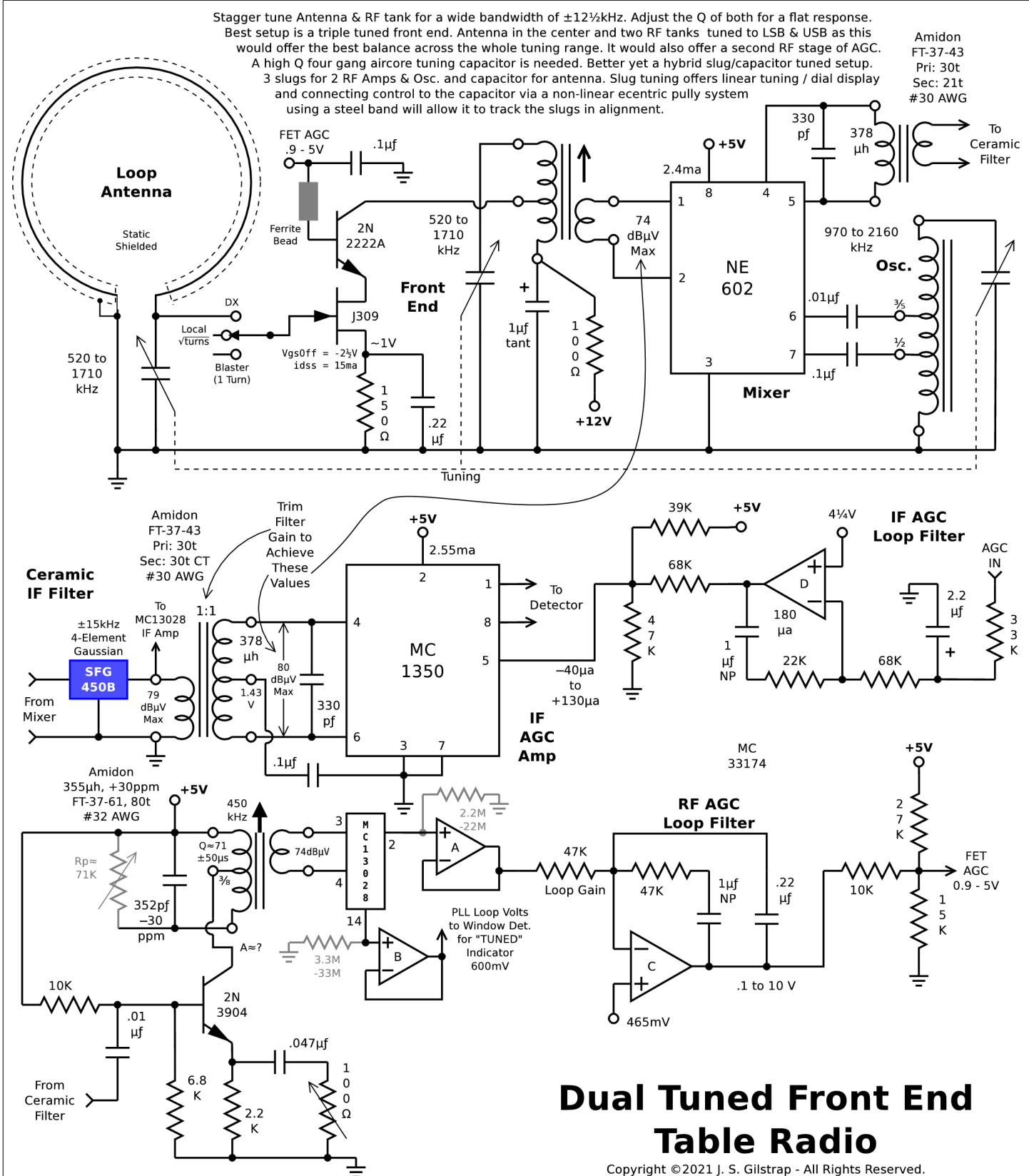


Local



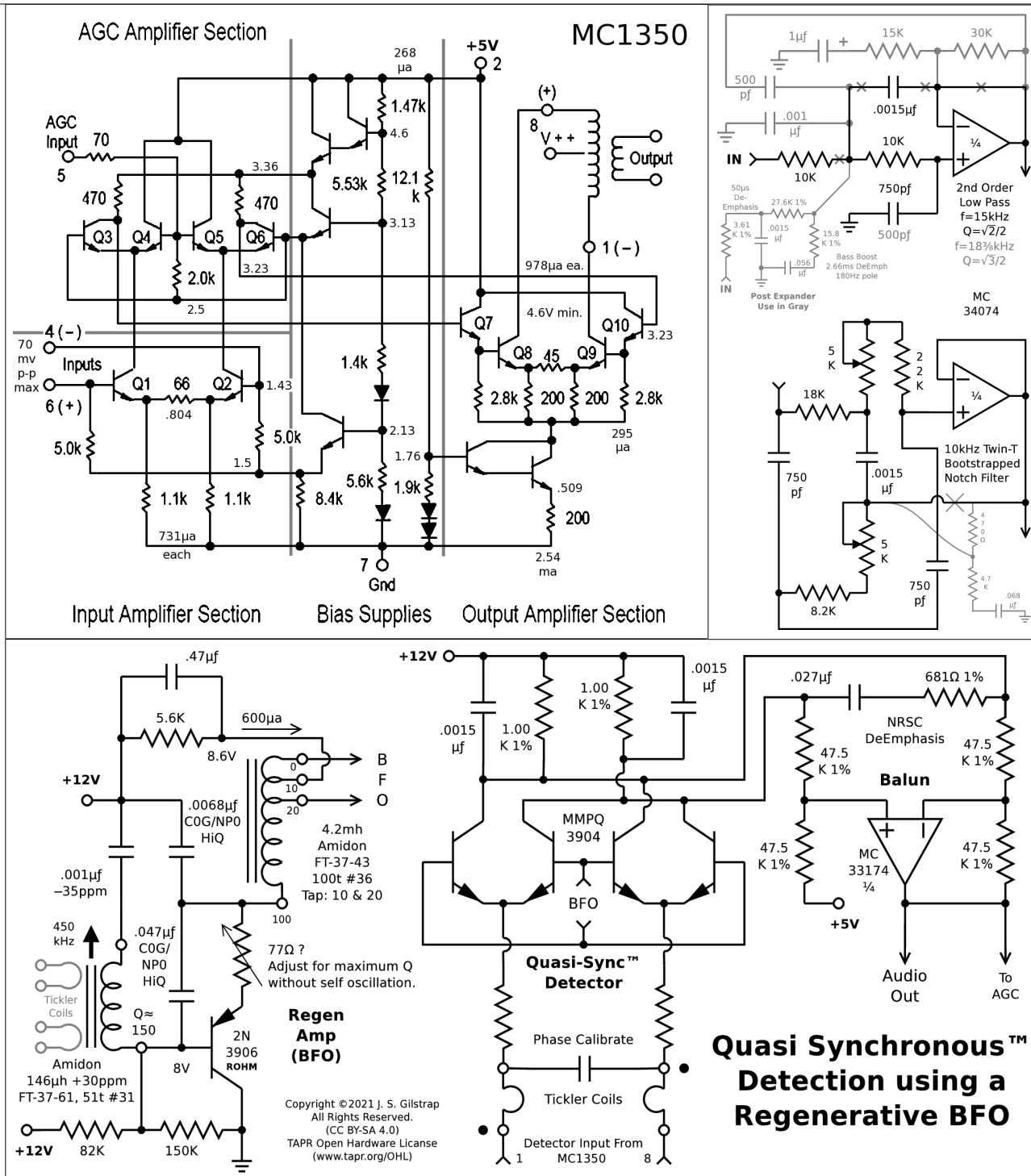
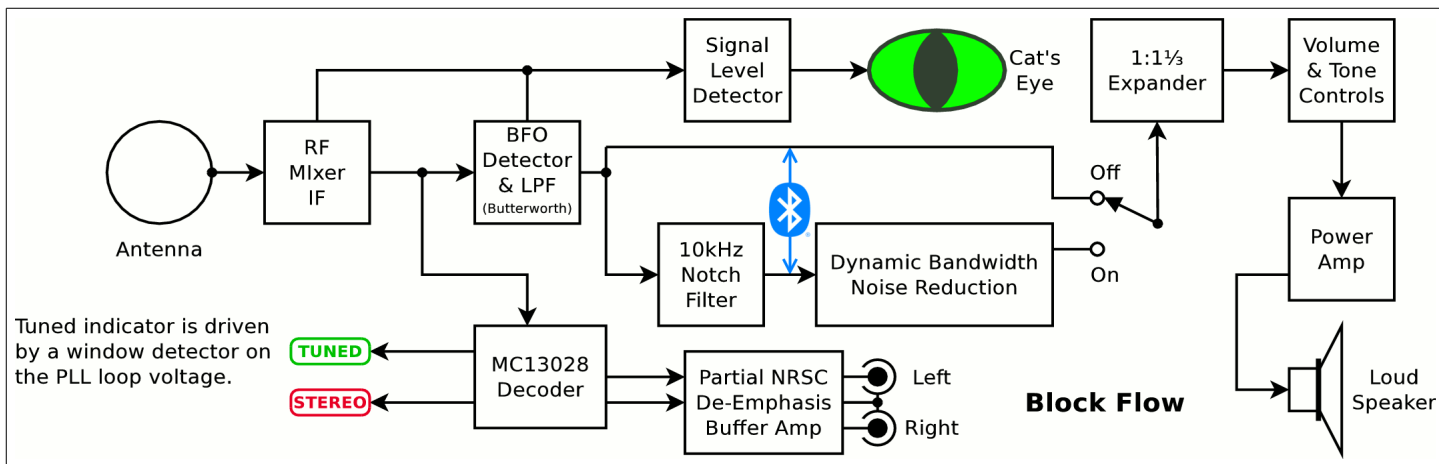
↑ **Actual Size 222.1 D.P.I. 11"H×10"W×8"D,  $\frac{5}{16}$ " Plywood** ↑  
**2 Ports:** ~45Hz, 3cm Dia, 16cm Long × 2 (1" PVC, I.D. 1.181", Sched. 20)

# NeoRetro™ Super AM Radio

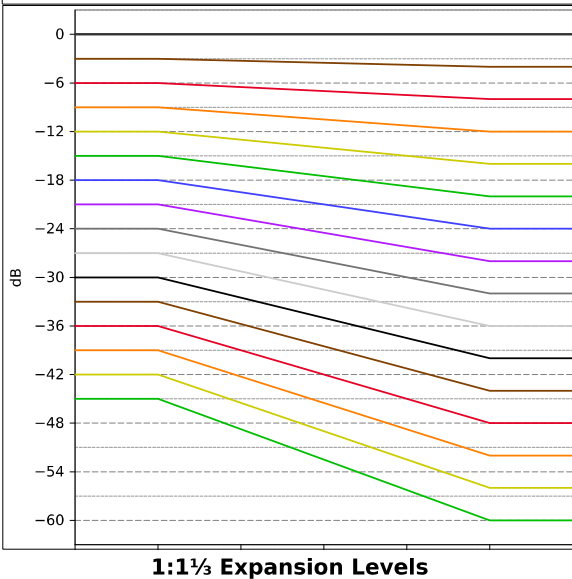
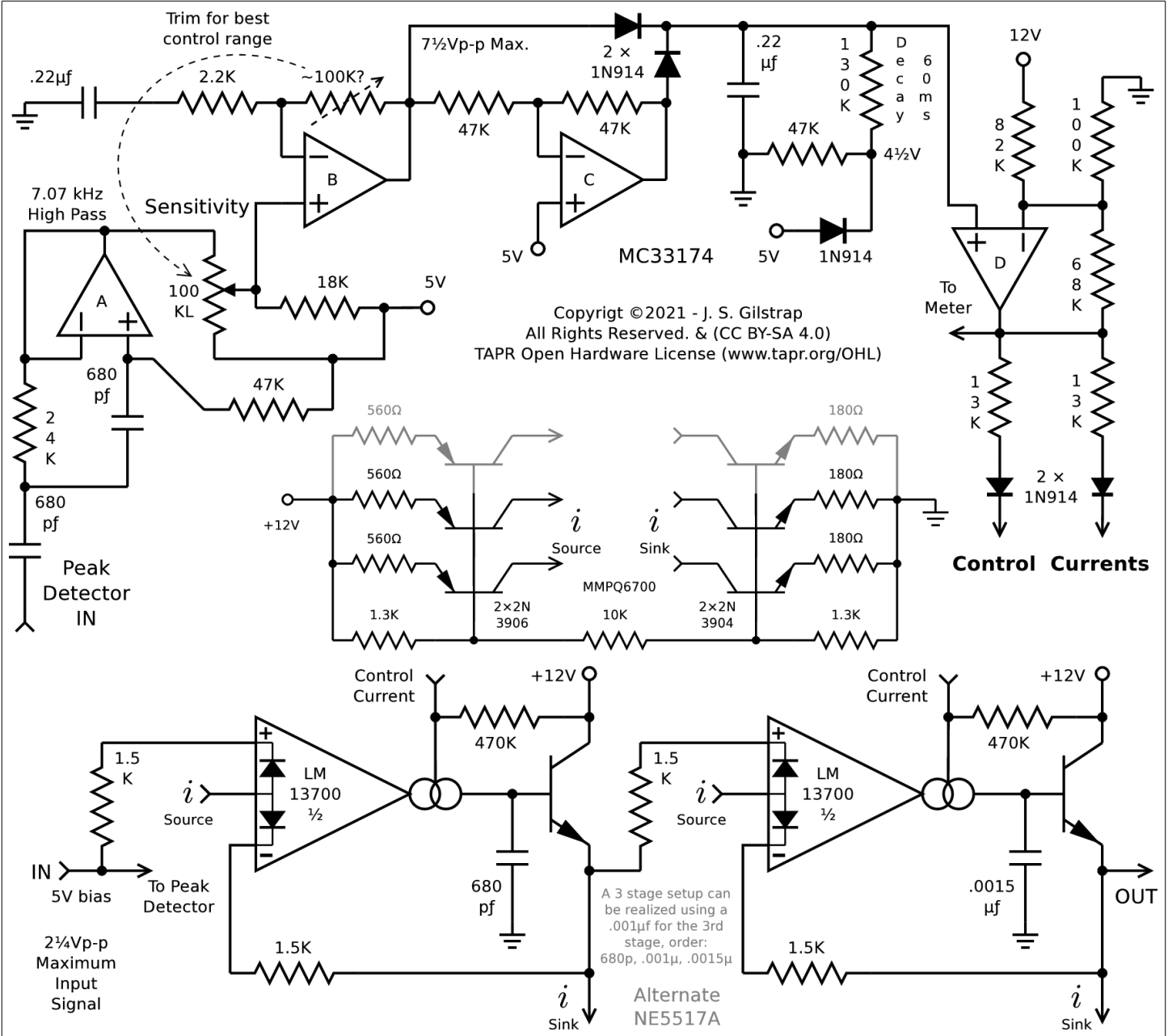


$$\text{dB}\mu\text{V} = 20 \times \text{Log}[\mu\text{V RMS}] \quad \text{UnModulated}$$

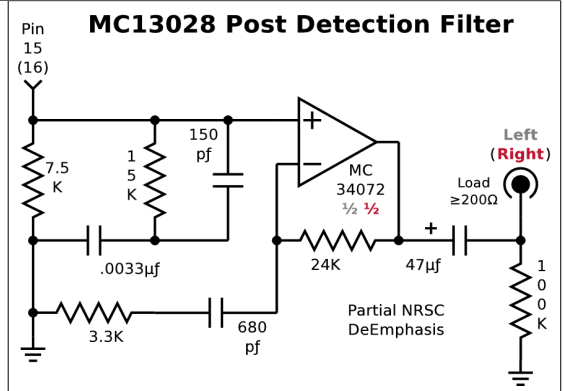




# Dynamic Bandwidth



Except for maybe using an LC tank instead of a ceramic resonator for the VCO on the MC13028 all other peripheral components are defaults specified in the datasheet. Forced Stereo is accomplished by pulling up the pilot 1 resistor. Forced Mono (8) to Gnd. This also Lock mode which released.



Standard NRSC De-Emphasis is used, 75μs w/8.7kHz pole, just post detection. The better standard for both TX & RX is 50μs wo/pole & 2.66ms w/180Hz pole Bass pre-emphasis, post Expander, replacing the .027μf & 681Ω de-emphasis on the sync-detector output with a .0015μf.

