



FM Signal Conditioner

As an alternative to an extra IF stage in an FM tuner, a PLL IC can be used as a signal conditioner. The VCO of the PLL tracks the input signal to provide a less noisy and stronger signal at its output.

The circuit shown is built around the Signetics NE561B PLL. The only thing necessary is adjustment of the 3/30 pF trimmer which sets the VCO's centre frequency to 10.7 MHz.

The circuit should be effectively screened to avoid interaction with the FM front end that provides the circuit's input.