

ABSTRACT:

FM receiver including a phase-quadrature IF filter.

FM receiver comprising an RF section, a first tunable mixer stage for a frequency conversion of a desired RF FM reception signal into a first intermediate frequency signal, an IF device and an FM demodulator. In order to render a considerable degree of integration possible, while maintaining a signal processing which is free from distortion, the FM receiver according to the invention comprises means incorporated in the signal path for converting a single-phase signal into a pair of signals in a mutual phase quadrature, said pair of phase-quadrature signals being applied to in-phase and quadrature signal paths of the IF device, said IF device comprising a polyphase IF filter incorporated in said in-phase and quadrature signal paths and having a bandpass characteristic which is symmetrical around its resonance frequency, said polyphase IF filter being coupled to the FM demodulator.

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