Abstracts

A Si BJT RF dual band receiver IC for DAB (1998 [RFIC])

W. Titus, R. Croughwell, C. Schiller and L. DeVito. "A Si BJT RF dual band receiver IC for DAB (1998 [RFIC])." 1998 Radio Frequency Integrated Circuits (RFIC) Symposium 98. (1998 [RFIC]): 297-300.

A low cost 1.5 GHz and 200 MHz dual channel broadband receiver IC for Digital Audio Broadcast (DAB) is described. The SSOP-28 packaged Si bipolar device provides 28 dB of conversion gain, 4 dB NF and 50 dB IM3 suppression to a common 920 MHz IF. Two novel 30 dB variable gain, 2.4 dB NF, low noise amplifiers are integrated with doubly balanced mixers, VCO, dual modulus prescaler, AGC and power management circuitry. With a companion IF IC, filters, and 20 MHz Frequency Synthesizer, it forms a complete DAB receiver for large dynamic range signals between -97 and -5 dBm.

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