

Abstracts

A Si BJT IF downconverter/AGC IC for DAB

M. Goldfarb, R. Croughwell, C. Schiller, D. Livezey and G. Heiter. "A Si BJT IF downconverter/AGC IC for DAB." 1998 Radio Frequency Integrated Circuits (RFIC) Symposium 98. (1998 [RFIC]): 305-308.

A low cost, 920 MHz to 30 MHz downconverter/AGC IF IC of novel topology is described. Implemented in Si bipolar technology, this device provides 85 dB of conversion gain, a 15 dB NF (including the 22 dB loss of an external bandpass filter), a leveled output of 41 dBmV (120 mVrms), with a minimum IM ratio of 40 dB. With a companion RFIC, it forms a DAB receiver.

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