

Dual-band/tri-mode receiver IC for N- and W-CDMA systems using 6"-PHEMT technology

B. McNamara, S. Zhang, M. Murphy, H.M. Banzer, H. Kapusta, E. Rohrer, T. Grave and L. Verweyen. "Dual-band/tri-mode receiver IC for N- and W-CDMA systems using 6"-PHEMT technology." 2001 Radio Frequency Integrated Circuits (RFIC) Symposium 01. (2001 [RFIC]): 13-16.

A dual-band/tri-mode receiver IC for CDMA based mobile systems has been fabricated using our 6"-PHEMT production line, comprising the complete RF front end and one IF stage. The first LNA stage exhibits an input IP3 of +8 dBm and a noise figure of 1.0 dB, the overall gain of the complete receiver is 26.0 dB. The current consumption only is 17 mA, for a minimum LO power demand of -7 dBm.

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