

Abstracts

Analog RF-optoelectronic integrated circuit receivers

D. Yap, R.H. Walden, Y.-M. Xie, Y.K. Brown, J. Vivilecchia and A.C. Yee. "Analog RF-optoelectronic integrated circuit receivers." 1997 Radio Frequency Integrated Circuits (RFIC) Symposium 97. (1997 [RFIC]): 59-62.

Optoelectronic Integrated Circuit (OEIC) receivers have been demonstrated for analog rf-photonic links. The photodetector and preamplifier are both based on the same InGaAs/InAlAs/InP heterojunction bipolar transistor structure. On-chip AC-coupling filters accommodate links having low modulation depths. The receivers operate in 1-6 GHz and 2-18 GHz bands.

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