

Abstracts

A Linear Class AB Single-Ended to Differential Transconverter Suitable for RF Circuits (1996 [MCS])

J. Durec and E. Main. "A Linear Class AB Single-Ended to Differential Transconverter Suitable for RF Circuits (1996 [MCS])." 1996 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 98. (1996 [MCS]): 215-218.

A novel circuit topology is presented which converts a single-ended signal into differential output currents with improved linearity. This cell operates in Class AB, allowing an output current greater than the quiescent current. A configuration which allows for the nulling of the third order distortion is derived and the implications of third order nulling on third order intermodulation is explained. Measured results of this cell implemented in 0.4 μm silicon-bipolar technology is presented.

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