

Abstracts

A Linear Class AB Single-Ended to Differential Transconverter Suitable for RF Circuits

J. Durec and E. Main. "A Linear Class AB Single-Ended to Differential Transconverter Suitable for RF Circuits." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 1071-1074.

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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