Abstracts

Analysis and Design of Multi-Octave MMIC Active Baluns Using a Distributed Amplifier Gate Line Termination Technique (1995 [MCS])

A.H. Baree and I.D. Robertson. "Analysis and Design of Multi-Octave MMIC Active Baluns Using a Distributed Amplifier Gate Line Termination Technique (1995 [MCS])." 1995 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 95.1 (1995 [MCS]): 217-220.

The analysis and design of a multi-octave MMIC active balun is described in this paper. The technique employed uses the gate-line 'termination' of a distributed amplifier topology as a non-inverting output. Closed-form expressions for the two output signals have been derived. The MMIC prototype has achieved balun operation over 0.5 to 20 GHz with a 10° maximum phase error.

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