

New Broadband Balun Structures for Monolithic Microwave Integrated Circuits

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Two new passive balun structures, are described for use in MMICs. They are especially relevant to wideband push-pull power amplifiers, being capable of handling several watts of power. They operate over bandwidths of up to 3:1 and can provide large impedance level transformations. Exact network synthesis procedures are used to generate prototypes and a 3 dimensional field simulator is used to verify the corresponding physical circuits. A family of designs for 6-18 GHz and 6.5-13.5 GHz bands has been established.

 [Return to main document.](#)