Abstracts

A low-loss planar microwave balun with an integrated bias scheme for push-pull amplifiers

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We report a new planar low loss microstrip balun with radial stub RF grounding. This structure achieves a good RF ground for a Marchand-type balun and facilitates microstrip balun characterization. Moreover, a simplified biasing scheme for a push-pull amplifier was designed using this concept and this approach has been used successfully in a push-pull amplifier. The measured balun insertion loss was less than 0.5 dB over a 5-11 GHz band.

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