Abstracts

A parallel connected Marchand balun using spiral shaped equal length coupled lines

M. Shimozawa, K. Itoh, Y. Sasaki, H. Kawano, Y. Isota and O. Ishida. "A parallel connected Marchand balun using spiral shaped equal length coupled lines." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1737-1740 vol.4.

This paper presents a 6-20 GHz broadband planar monolithic balun. To get a broadband characteristic without narrow spaced coupled transmission lines, a parallel connected Marchand balun with spiral shaped equal length coupled lines are used. A developed monolithic balun achieves the maximum insertion loss of 5 dB including 3 dB power splitting loss from 6 to 20 GHz.

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