

## X-band and K-band lumped Wilkinson power dividers with a micromachined technology

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*Liang-Hung Lu, P. Bhattacharya, L.P.B. Katehi and G.E. Ponchak. "X-band and K-band lumped Wilkinson power dividers with a micromachined technology." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. 1 [MWSYM]): 287-290.*

With a novel micromachined technology, Wilkinson power dividers have been realized by lumped components such as spiral inductors, metal-insulator-metal (MIM) capacitors and thin-film resistors (TFRs). For the first time, X-band and K-band power dividers with low loss (0.6 dB) and wide bandwidth (25% bandwidth for 15 dB return loss) have been demonstrated in this work. Due to the process compatibility, this technology is suitable for Si-based MMIC applications.

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