Abstracts

A full waveguide band MMIC tripler for 75-110 GHz

M. Morgan and S. Weinreb. "A full waveguide band MMIC tripler for 75-110 GHz." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. I [MWSYM]): 103-106 vol.1.

Design and test data for a full waveguide band MMIC tripler using anti-parallel Schottky diodes are reported in this paper. The circuit outputs between -3.7 dBm and +2.0 dBm from 75 to 110 GHz. When tuned for power flatness, the output is between -4.6 dBm and -1.3 dBm across the band. The conversion efficiency is about 1.5% in both cases. To the authors' knowledge, this is the first reported MMIC frequency tripler to cover the entire W-band.

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