Abstracts

Subharmonic Mixer Using Planar Doped Barrier Diodes

S. Dixon, R.J. Malik, J. Paul, P. Yen, T.R. Aucoin and L.T. Yaun. "Subharmonic Mixer Using Planar Doped Barrier Diodes." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 27-29.

As a part of an Electronics Technology and Devices Laboratory internal effort, a novel subharmonically pumped mixer using planar doped barrier (PDB) diodes has been designed and fabricated. It adopts a configuration which is used primarily to optimize the MBE grown PDB diodes. A conversion loss, in the order of 6 dB has been achieved using a 1.2 GHz local oscillator and a signal frequency of 2.0 GHz.

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