

# Abstracts

## 94 GHz Subharmonic Mixer Using Beam Lead Diodes

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*J.A. Paul and P. Yen. "94 GHz Subharmonic Mixer Using Beam Lead Diodes." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 117-119.*

As part of a diode and mixer development effort, a low cost subharmonically pumped millimeter-wave mixer design using GaAs beam lead diodes has been developed. It adopts a configuration which incorporates both waveguide and suspended stripline using a low cost Duroid substrate. A DSB noise figure of 8.5 dB has been achieved-using a 47 GHz Gunn local oscillator and 5- to 500-MHz IF amplifier with a 1.5-dB noise figure.

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