

Abstracts

Millimetre Wave Low Noise E-Plane Balanced Mixers Incorporating Planar MBE GaAs Mixer Diodes

R.N. Bates, R.K. Surridge, J.G. Summers and J. Woodcock. "Millimetre Wave Low Noise E-Plane Balanced Mixers Incorporating Planar MBE GaAs Mixer Diodes." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 13-15.

Planar GaAs Mott mixer diodes have been made for use in novel E-plane balanced mixers at 35 and 85 GHz. Single sideband noise figures of 6 dB at 35 GHz and 7.5 dB at 85 GHz (including 1 dB I.F. contribution) have been achieved. Both devices and circuits are suitable for low cost, high volume applications.

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