

Abstracts

A compact subharmonically pumped MMIC self oscillating mixer for 77 GHz applications

M.J. Roberts, S. Iezekiel and C.M. Snowden. "A compact subharmonically pumped MMIC self oscillating mixer for 77 GHz applications." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1435-1438.

A novel 77 GHz MMIC self oscillating mixer is presented with measured results. The mixer achieves mixing and doubling simultaneously using a single pHEMT. The mixer exhibits a measured conversion loss of 12 dB at 77 GHz and an average measured conversion loss of 15 dB from 70 to 85 GHz which compares well with simulated results.

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