

Abstracts

Quasioptical Patch Mixers at 35 and 94 GHz

C.M. Jackson, J.A. Lester, M.A. Yu and Y.C. Ngan. "Quasioptical Patch Mixers at 35 and 94 GHz." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 781-784.

An innovative subharmonically pumped quasioptical mixer has been developed with a 4 GHz bandwidth at 35 GHz, nearly twice the bandwidth reported earlier. The design has been scaled to 94 GHz, and it is possible to scale the design to higher frequencies. Quasioptical mixers are an important component for low cost applications combining the best aspects of microwave and optical technology at millimeter frequencies and beyond. Earlier work has developed low noise patch antenna quasioptical mixers at 35 GHz. This work doubles the earlier 35 GHz bandwidth and extends the operating frequency to 94 GHz.

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