

Abstracts

A Quasi-Optical Multiplying Slot Array

N. Camilleri. "A Quasi-Optical Multiplying Slot Array." 1985 Transactions on Microwave Theory and Techniques 33.11 (Nov. 1985 [T-MTT]): 1189-1195.

A quasi-optical frequency-multiplying slot array for high-power millimeter-wave applications has been demonstrated. Single slot conversion loss measured for X- and Ka -band models produced results that are similar to in-waveguide multipliers using the same type of diodes. An eight-element multiplying array exhibited better than --12-dB sidelobe level at 70 GHz. The simple planar structure makes millimeter IC fabrication of the slot array feasible.

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