

# Abstracts

## A High Performance Frequency Doubler for 80 to 120 GHz (Short Papers)

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*J.W. Archer. "A High Performance Frequency Doubler for 80 to 120 GHz (Short Papers)." 1982 Transactions on Microwave Theory and Techniques 30.5 (May 1982 [T-MTT]): 824-825.*

A frequency doubler for the 80- to 120-GHz output band is described. The device may be operated in either a fixed-tuned or a tuneable mode. When operated fixed-tuned, with a constant dc bias applied to the diode, the conversion loss for any output frequency between 80 and 120 GHz is 9.2 dB,  $\pm 1.2$  dB. When used so that toning and bias are optimized at each operating frequency, the doubler exhibits conversion loss less than 7.5 dB for any frequency between 90 and 124 GHz.

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