

Abstracts

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

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, ± 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.

 [Return to main document.](#)