

# Abstracts

## On the Development of a High Efficiency 750 GHz Frequency Tripler for THz Heterodyne Systems

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*A. Rydberg, B.N. Lyons and S.U. Lidholm. "On the Development of a High Efficiency 750 GHz Frequency Tripler for THz Heterodyne Systems." 1992 Transactions on Microwave Theory and Techniques 40.5 (May 1992 [T-MTT]): 827-830.*

The development of a 750 GHz Schottky varactor diode frequency tripler having a measured output power and efficiency of more than 120  $\mu$ W and 0.8% at a frequency of 803 GHz is described. The output powers and efficiencies are the highest reported for this frequency. The 750 GHz tripler mount is analyzed and optimized using a scaled model of the mount. Measurements of the embedding impedance seen by the device, using the model, are compared with theoretical values.

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