

Varactor Frequency Doublers and Triplers for the 200 to 300 GHz Range

L.D. Cohen, S. Nussbaum, E. Kraemer, J. Calviello and J. Taub. "Varactor Frequency Doublers and Triplers for the 200 to 300 GHz Range." 1975 MTT-S International Microwave Symposium Digest of Technical Papers 75.1 (1975 [MWSYM]): 274-276.

An advance in the state-of-the-art of millimeter wave solid-state sources has been achieved with the development of a frequency tripler to 300 GHz with an output level of 2 mW. A frequency doubler to 200 GHz with an output power level of 10 mW has also been developed and tested. Efficient multiplication has been obtained by use of a new AIL high cutoff frequency varactor and specially developed circuit techniques.

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