

Abstracts

A 90 GHz FM-CW-Radar Transmitter

H. Barth and M. Bischoff. "A 90 GHz FM-CW-Radar Transmitter." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]): 75-78.

The design and the performance of an FM-CW-Radar transmitter for 90 GHz set up synchronized and powercombined IMPATT-oscillators are presented in this paper. The synchronising source consists of a 45 GHz-Gunn-oscillator which is simultaneously swept and doubled by the same varactor. The outputpower of the entire unit is 240 mW achievable sweep range amounts to 1 GHz.

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