

Abstracts

Solid State MM-Wave Oscillators with Large Tuning Range

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We describe broadband mechanical tunable oscillators using GaAs and InP Gunn diodes. Tuning ranges are 72 to 102 GHz (GaAs), 115 to 138 GHz (GaAs with frequency doubler) and 76 to 113 GHz (InP). Output powers are in the range from 2 mW (GaAs-Doubler) to 54 mW (InP). Experimental results and a model calculation are presented.

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