

Abstracts

Direct opto-electronic synthesis of mW-level millimeter wave signals using an optical frequency comb generator and a uni-traveling-carrier photodiode

S. Fukushima, C.F.C. Silva, Y. Muramoto and A.J. Seeds. "Direct opto-electronic synthesis of mW-level millimeter wave signals using an optical frequency comb generator and a uni-traveling-carrier photodiode." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. I [MWSYM]): 69-72 vol. 1.

The first experimental demonstration of direct 60 GHz opto-electronic synthesis of mW-level millimeter-wave signals using an optical frequency comb generator is reported. We obtained signals from 10 to 60 GHz with a maximum power of +3 dBm at 60 GHz using a uni-traveling-carrier photodiode.

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