

Abstracts

A 32-GHz Reflected-Wave Maser Amplifier with Wide Instantaneous Bandwidth

J. Shell and D. Neff. "A 32-GHz Reflected-Wave Maser Amplifier with Wide Instantaneous Bandwidth." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 789-792.

An eight-stage 32-GHz reflected-wave ruby maser has been built. The maser operates in a 3-watt closed-cycle refrigerator (CCR) at 4.5 kelvin and is capable of 21-dB net gain with an instantaneous bandwidth of 400 MHz. The input noise temperature referred to the room temperature flange is approximately 21 kelvin.

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