Abstracts

A new approach for RIN peak and phase noise suppression in microchip lasers

M. Csornyei, T. Berceli, T. Banky, T. Marozsak and P.R. Herczfeld. "A new approach for RIN peak and phase noise suppression in microchip lasers." 2002 MTT-S International Microwave Symposium Digest 02.2 (2002 Vol. II [MWSYM]): 1377-1380 vol.2.

This paper is concerned with the suppression of the relative intensity noise (RIN) peak and phase noise of a diode pumped Neodymium-doped Lithium Niobate (Nd:LiNbO/sub 3/) microchip laser. Relaxation oscillations result in about 15-20 dB noise peak above the flat noise at 350 kHz offset frequency. In case of high quality requirements this noise peak is significantly disturbing. In this paper a new approach is presented for the suppression of the RIN peak and phase noise in microchip lasers.

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