

Abstracts

IF signal transmission at 60 GHz-band using direct modulation of a two-mode locked Fabry-Perot slave laser

M. Ogusu, K. Inagaki, Y. Mizuguchi and T. Ohira. "IF signal transmission at 60 GHz-band using direct modulation of a two-mode locked Fabry-Perot slave laser." 2001 Microwave and Wireless Components Letters 11.7 (Jul. 2001 [MWCL]): 290-292.

We demonstrate the fiber transmission of an IF signal at 60 GHz-band using a two-mode injection-locked Fabry-Perot slave laser for fiber radio systems. The IF signal can be generated by the CW modulation of the slave laser without using an optical intensity-modulator. We confirm the fast response of the modulated slave laser and a 77 dB dynamic range for signal modulation against third-order distortion. The IF signals power deviation caused by fiber dispersion is also investigated.

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