Abstracts

Stable and high-power laser diode module for millimeter-wave generation

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A 60 GHz-band millimeter (MM)-wave signal generation using a long-term frequency-stabilized 60 GHz mode-locked laser diode (MLLD) module is presented. The output optical power of the MLLD module is more than 6.0 dBm. The generated 60 GHz MM-wave signal with the 3 dB linewidth of less than 300 Hz over 2.9 km-long optical fiber link is successfully demonstrated.

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