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| **Title:** | Demonstration of resonance frequency enhancement effect by using split pumping region in active multi-mode interferometer laser diode | | |
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| **Abstract:** |  |
| We demonstrate for the first time, the resonance frequency enhancement effect by using split pumping region in active multi-mode interferometer laser diode (active MMI LD). Significant enhancement of 3 dB bandwidth up to 6.2 GHz from 2.3 GHz due to the enhancement of resonance frequency has been successfully confirmed by using this scheme. | |