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标题: Thermally Tunable DFB Dual Mode Laser Diode by an External Platinum Thin-Film Heater for THz Generation
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摘要: In this work, we study and investigate the thermally effects on the compact continuous wave (CW) distributed feedback (DFB) laser as a tuning method using an external platinum mu-heater film in a vertical and lateral configurations. A low injection current into platinum heater produces the variation temperature inside the active and grating regions to shift the lasing wavelength. The frequency is continuously tuned up to 3 THz at operation wavelength of 937 nm, by controlling the temperature of the laser to achieve sub-millimetre (sub-mmW) and terahertz (THz) signals generation by photomixing.
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