

Abstract

In case of the high-speed operation, it is difficult to ignore the time required for the voltage to rise to the level of voltage to be applied and the time to fall to 0V when the voltage is applied to the phase modulator. The
5 first phase modulator 71 and the second phase modulator 73 are connected in parallel, and the optical path is switched by the switching unit 55 of the control unit 51 between the first optical switch 33 and the second optical switch 35. The switching unit 55 of the control unit 51 supplies the phase modulation data 31 stored in the phase modulation data memory 53 to the
10 first voltage generating unit 57 or the second voltage generating unit 59 to generate the voltage necessary for the phase modulation.



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