

M02068



622 Mbps, 3.3 V Laser Driver

The M02068 is a highly integrated, programmable laser driver intended for telecom applications up to 622 Mbps. Using differential PECL data and clock inputs, the M02068 supplies the bias and modulation current for driving an edge-emitting laser. The modulation output can be DC coupled to the laser diode, giving a significant power savings over AC coupled operation. The modulation current is temperature-compensated to minimize the variation in extinction ratio over temperature.

Features

- Rise and fall times
- Available in die form and BCC24 packages
- Output flags indicate laser end-of-life and APC failure
- Low-cost CMOS
- Operates with +3.3 V supply
- Bias and modulation current monitors
- Automatic laser power control with programmable temperature compensation and 'slow-start'
- Bias current to 100 mA and modulation current to 85 mA at $V_{CC} = 3.3\text{ V}$
- Independently programmable laser bias and modulation currents
- DC or AC coupled modulation drive

Applications

- Enterprise Solutions
- Optical Networking

Specifications

- Max Data Rate: 1 Gbps
- Max Output Mod Current: 85 mA
- Max Output Bias Current: 100 mA
- Driver Input Sensitivity: 300 mV

• Part Number	MACOM
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