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M02066

3 Gbps, 3.3V Laser Driver

The M02066 is a highly integrated, programmable laser driver intended for short-reach SONET/SDH applications. Using differential PECL data and clock inputs, the M02066 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 variation in extinction ratio over temperature.

- [Features](#)
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Features

- High-speed operation, suitable for applications to 3 Gbps
- Available in RoHS compliant packages
- M02066-82 is available in a TQFP32 package
- M02066-21 and M02066-51 are available in a BCC+24 package
- Operates with +3.3 volt supply
- Bias and modulation current monitor
- Automatic laser power control with programmable temperature compensation and 'Slow-Start'
- Bias current to 100 mA and modulation current to 85 mA at VCC = 3.3 V
- Independently programmable laser bias and modulation currents
- Differential data and clock inputs to minimize pattern dependent jitter
- DC or AC coupled modulation drive
- Typical rise/fall times of 90 ps

Applications

- Enterprise Solutions
- Optical Networking

Specifications

- Max Data Rate: 2.5 Gbps
- Max Output Mod Current: 85 mA
- Max Output Bias Current: 100 mA
- Driver Input Sensitivity: 300 mV

Datasheet

- [02066-DSH-001-D.pdf](#)

Application Notes

- [0206x-APP-002-A - M02063/6/7/8/9 Application Note: Designing a Burst Mode Laser Driver with Open Loop APC Control1](#)

Product Briefs

- [02066-BRF-001-A.pdf](#)

RoHS/IPC Report

- [M02066G-21_IPC-1752-2_v11a_ASEK_au.pdf](#)
- [M02066G-82_IPC-1752-2_v11a_AmkorP_Au.pdf](#)
- [M02066G-51_IPC-1752-2_v11a_ASEK_au.pdf](#)

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Part Number	Package	MACOM		
M02066-82	CX02066 - TQFP32 integrated circuit	5X5MM ETQFP-32LD	[Inquire](#)	

M02066G-21
M02066G-21 -RoHs-

4X4MM BCC+-24LD   Inquire

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Technical Resources

Datasheet

- 02066-DSH-001-D.pdf

Application Notes

- 0206x-APP-002-A - M02063/6/7/8/9 Application Note: Designing a Burst Mode Laser Driver with Open Loop APC Control1

Product Briefs

- 02066-BRF-001-A.pdf

RoHS/IPC Report

- M02066G-21_IPC-1752-2_v11a_ASEK_au.pdf
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