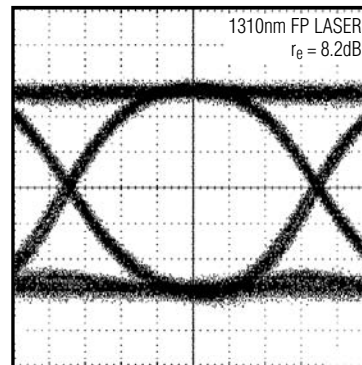


# LASER DRIVER WITH EXTINCTION RATIO CONTROL REDUCES MANUFACTURING COST FOR MULTIRATE SFF/SFP MODULES

The MAX3738 laser driver operates from 1Gbps up to 2.7Gbps and meets all SFP and SFF-8472 diagnostic and timing requirements. The driver features extinction ratio control (ERC) which allows the module to maintain a constant extinction ratio over temperature and lifetime, and this lowers manufacturing costs. The MAX3738 can be AC or DC coupled to the laser diode, and includes self-biasing inputs for AC-coupling ease.

- ◆ **Single 3.3V Supply**
- ◆ **Extinction Ratio Control**
- ◆ **Meets all SFP/SFF-8472 Requirements**
- ◆ **On-Chip Thermal Compensation**
- ◆ **Compact 4mm x 4mm Package**

**MAX3738 OPTICAL EYE DIAGRAM**  
(1.25Gbps, 2<sup>7</sup> - 1 PRBS, 940MHz FILTER)



116ps/div

## Maxim's High-Performance Laser Drivers

Part	Description	Data Rate (bps)	Automatic Power Control	Extinction Ratio Control	Package (QFN)	Temp Range (°C)	Price <sup>†</sup> (\$)
MAX3738	3V laser driver with ERC	1G to 2.7G	Yes	Yes	4mm x 4mm	-40 to 85	5.50
MAX3735A	3V laser driver	155M to 2.7G	Yes	No	4mm x 4mm Die	-40 to 85	4.75
MAX3736	3V compact laser driver	155M to 2.7G	No	No	3mm x 3mm Die	-40 to 85	4.25
MAX3740A	3V VCSEL driver	1G to 3.2G	Yes	No	4mm x 4mm	-40 to 85	4.4
MAX3741	3V compact VCSEL driver	1G to 3.2G	No	No	3mm x 3mm	-40 to 85	4.0

<sup>†</sup>1000-up recommended resale. Prices provided are for design guidance and are FOB USA. International prices will differ due to local duties, taxes, and exchange rates. Not all packages are offered in 1k increments, and some may require minimum order quantities.



[www.maxim-ic.com](http://www.maxim-ic.com)

**FREE Fiber Design Guide—Sent Within 24 Hours!**

CALL TOLL-FREE 1-800-998-8800 (6:00 a.m.—6:00 p.m. PT)

For a Design Guide or Free Sample



Distributed by Maxim/Dallas Direct!, Arrow, Avnet Electronics Marketing, Digi-Key, and Newark.

MAXIM is a registered trademark of Maxim Integrated Products, Inc. © 2004 Maxim Integrated Products.