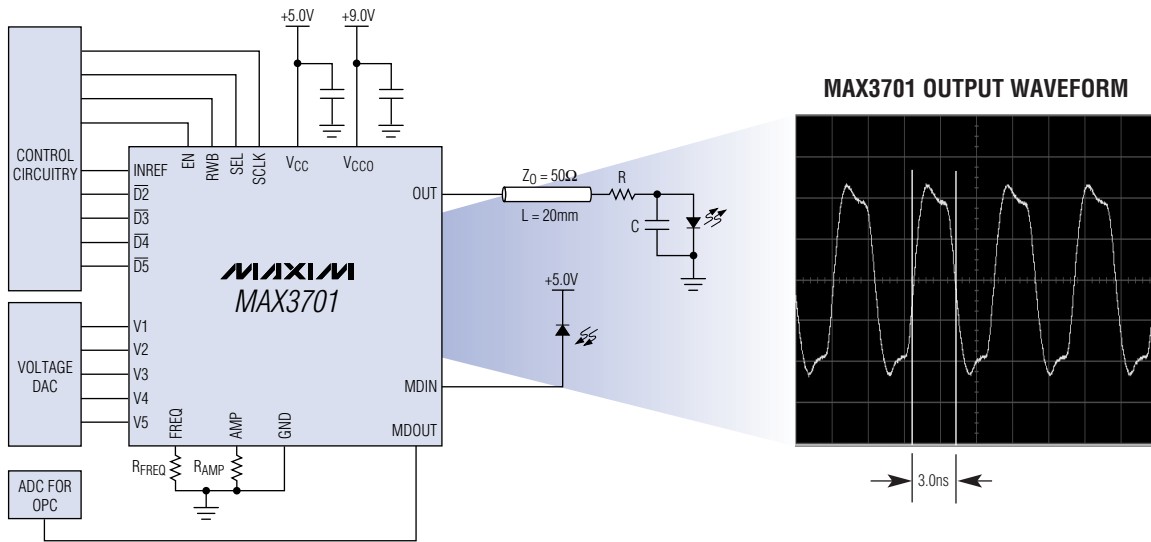


# DRIVE BLUE LASERS AT 2X WITH NO ACTIVE EXTERNAL COMPONENTS

**Less than 1.0ns Output Rise and Fall Time with Less than 10% Output Aberrations**

The MAX3701 is a single-output laser driver designed to drive a common cathode blue laser at 2x. It includes a programmable current source for laser bias control and four programmable data channels for programming write current levels. Integrated into the MAX3701 is a programmable RF current source with amplitude control. A transimpedance amplifier and sample/hold circuit are integrated on-chip for use with a monitor photodiode as part of an optical power-control loop. The four input channels can write at speeds up to 400Mbps. The MAX3701 can be used in red or blue optical disc applications employing multiple formats.



- ◆ Read/Write Common Cathode Laser
- ◆ 200mA Maximum Drive Current
- ◆ <1.0ns Rise/Fall Time
- ◆ Sample/Hold Circuit with Preamp
- ◆ Single-Ended High-Speed Inputs
- ◆ Single-Ended CMOS Control Interface

- ◆ 5-Level Output Programmability
- ◆ No External Active Components Required

Part	Pin-Package	Price† (\$)
MAX3701CTJ	32-QFN	1.95

†10,000 direct. 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.

## MAXIM

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