

## Applications

- 11.3 Gbps EML Driver for Optical Systems

**5115**  
**1412**  
**2354**

24-L 4x4 mm QFN package

## Product Features

- 11.3 Gbps EML Driver
- Differential Input/ Differential Output
- Power dissipation: 0.44 W @ 2.3 Vpp
- Adjustable Crossing: 35 – 70 %
- Maximum DC Output Offset: 1.2 V
- Output Swing: >2.3 Vpp SE; >4.6 Vpp Diff
- Rise/Fall Time: 28 ps
- Package Dimensions: 4.0 x 4.0 x 0.85 mm

## General Description

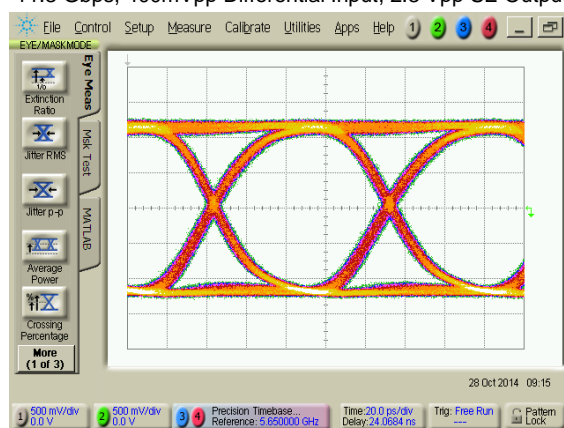
The TQP5115 is an 11.3 Gbps EML driver with power consumption of 0.44 W @ 2.3 Vpp single-ended (4.6 Vpp differential) output with typical rise and fall time of 28 ps.

The TQP5115 can be run with either a single-ended or differential input as well as single-ended or differential output. This part can be run with either DC or AC coupling on the output. DC coupling requires 5 V on VD2. AC coupling can be run with 3.3 V on VD2.

The TQP5115 is lead-free and RoHS compliant. Evaluation boards are available upon request.

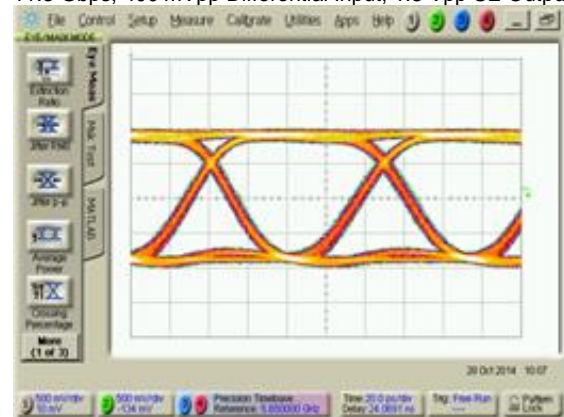
## Measured Data

Vd1 = Vd2 = 3.3 V, Id1 = 51 mA, Id2 = 84 mA, 25 °C  
11.3 Gbps, 400mVpp Differential Input, 2.3 Vpp SE Output



## Measured Data

Vd1 = Vd2 = 3.3 V, Id1 = 51 mA, Id2 = 63 mA, 25 °C, 77% crossing  
11.3 Gbps, 400 mVpp Differential Input, 1.8 Vpp SE Output



## Ordering Information

| Part No. | ECCN    | Description          |
|----------|---------|----------------------|
| TQP5115  | 5A991.b | 11.3 Gb/s EML Driver |