

Applications

11.3Gbps EML Driver for Optical Systems



24-L 4x4 mm QFN package

Product Features

• 11.3Gbps EML Driver

• Differential Input/ Differential Output

• Power dissipation: 0.65 W @ 2.5 Vpp

• Adjustable Crossing: 35 – 80 %

Maximum DC Output Offset: 1.2 V

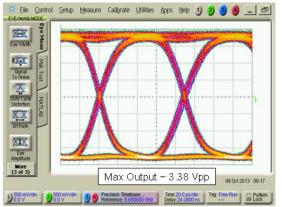
Output Swing: 3 Vpp SE; 6 Vpp Diff

• Rise/Fall Time: <25 ps

• Package Dimensions: 4.0 x 4.0 x 0.85 mm

Eye Diagram

VD1 = VD2 = 3.3 V, ID1 = 132 mA, ID2 = 122 mA, $25 ^{\circ}\text{C}$ 11.3 Gbps 400 mVpp Differential Input, 2.5 Vpp SE Output



General Description

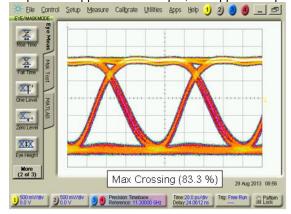
The TGA4195-SM is an 11.3 Gbps EML driver with power consumption of 0.65 W @ 2.5 Vpp single-ended (5 Vpp differential) output with rise and fall time of less than 25 ps.

The TGA4195-SM 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 TGA4195-SM is lead-free and RoHS compliant. Evaluation boards are available upon request.

Eye Diagram

VD1 = VD2 = 3.3 V, ID1 = 105 mA, ID2 = 85 mA, 25 °C 11.3 Gbps 400mVpp Differential Input, 2.5 Vpp SE Output



Ordering Information

Part No.		Description
TO 4 4405 ON 4	5A991.b	11.3Gpbs EML Driver

Standard T/R = 1000 pieces on a 7" reel