

# TGA4826-SM

## 10 Vpp 15 Gbps Optical Modulator Driver

### Applications

- Mach-Zehnder Modulator Driver for Metro and Long Haul Optical Networks



### Product Features

- 9 – 18 Gbps operation
- 3 -10 Vpp Output Voltage
- Gain: 22 dB
- Single-ended Input / Output
- Low Power Dissipation < 1.6 W
- Bias:  $V_d = 7\text{ V}$ ,  $I_d = 280\text{ mA}$ ,  $V_{ctrl} = +0.4\text{ V}$ ,  $V_g = -0.5\text{ V}$  Typical for operation
- Package Dimensions: 6 x 6 x 1.6 mm

### General Description

The TriQuint TGA4826-SM is an addition to TriQuint's portfolio of optical driver amplifiers suitable for a variety of optical network applications.

The TGA4826-SM is a high power wideband amplifier that typically provides 22 dB small signal gain. The TGA4826-SM is an excellent choice for applications requiring high drive combined with high linearity. The TGA4826-SM can be used as a gain block when  $V_{dbypass}$  is used, or alternatively, can deliver up to 10 Vpp when  $V_d$  is biased through an external bias tee through the RFout line.

The TGA4826-SM requires an RF choke, DC blocks &/or bias tees, if required, and control circuitry.

RoHS and Lead-Free compliant. MSL1 per IPC/JEDEC J-STD-020C. Evaluation boards available on request.

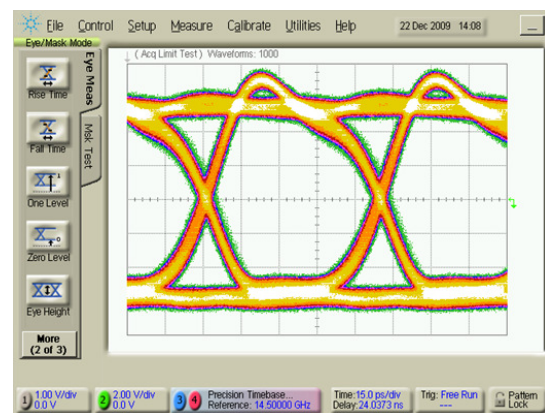
For more information, please contact TQS sales.

Web: [www.triquint.com](http://www.triquint.com) Tel: +1.972.994.8465

Email: [info-sales@tqs.com](mailto:info-sales@tqs.com) Fax: +1.972.994.8504

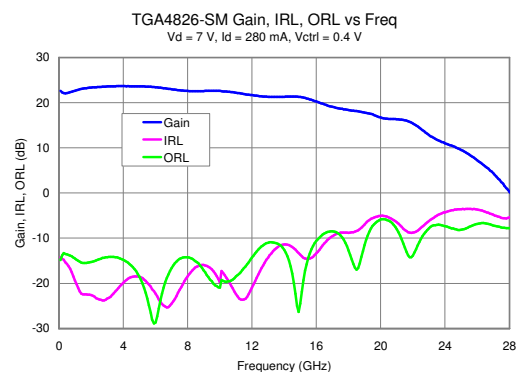
### Typical Electrical Eye

$V_d = 7\text{ V}$ ,  $I_d = 280\text{ mA}$ ,  $V_{ctrl} = 0.4\text{ V}$ ,  $V_g = -0.5\text{ V}$   
 $V_{in} = 1.5\text{ Vpp}$ , 14.5 Gbps



### Typical S-Parameters

$V_d = 7\text{ V}$ ,  $I_d = 280\text{ mA}$ ,  $V_{ctrl} = 0.4\text{ V}$ ,  $V_g = -0.5\text{ V}$



### Ordering Information

Part No.	ECCN	Description
TGA4826-SM	5A991.b	10Vpp 15 Gbps OMD