

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.

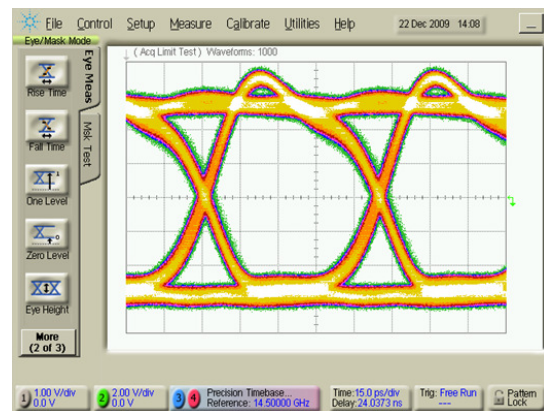
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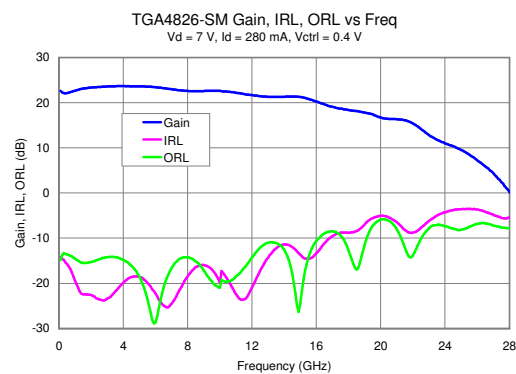
Typical Electrical Eye

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