

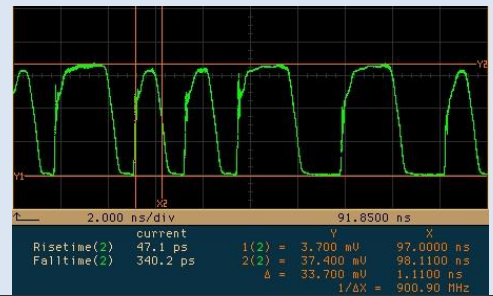


Optical Digital Transmitter Assembly OPM-LD-D1-C

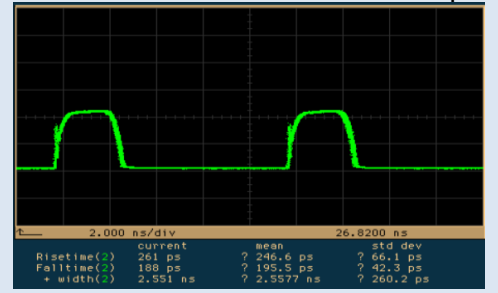
Features

- Optical transmitter that includes:
 - Powerful broad-band current driver
 - Integrated laser diode (TO can or Coaxial)
 - Comprehensive monitoring
- Rise / Fall times of < 400ps
- Data rate up to 1Gb/s
- Suitable to single pulses, burst mode and PRBS data
- Laser peak current up to 500mA
- DC bias control up to 150mA
- RF input: differential (100 ohm) or SE (50 ohm)
- AC coupled or DC coupled input options
- Wide selection of laser diodes in TO can and coaxial packages including wavelengths of 8xx, 1064nm, 1550nm or per request
- Fiber output (FC/PC or FC/APC) or free space
- Compatible with OPM's AWG-2500 modules

900MHz NRZ / 400mA



100MHz 520mA Tr/Tf ~ 250/200ps



With a high power VCSEL



Bottom view – Single ended RF input



Description

The OPM-LD-D1-C was designed for systems where high speed and powerful transmission is required. The OPM-LD-D1-C operates in frequencies of DC up to over 1GHz. Peak current of up to 500mA and optical peak power up to 250mW.

The OPM-LD-D1-C can be coupled with an arbitrary pattern generator to form optical transmission. A wide selection of laser diodes is offered for the OPM-LD-D1-C. This includes wavelengths in the visible and the IR, including 8xx, 9xx, 1064nm and 1550nm.

The RF input of the OEM version can be used either in a 100 ohm differential form or a single ended 50 ohm. AC coupled and DC coupled versions are available.

The module includes controls of bias current and signal amplitude.

The optical output is provided either through a connector (Typically FC/APC) or free space.

Product applications

- Laser source for time-of-flight cameras
- Part of sensor systems for automotive applications
- High power source for optical telecommunication channels
- Laser source/driver for electro-optics labs