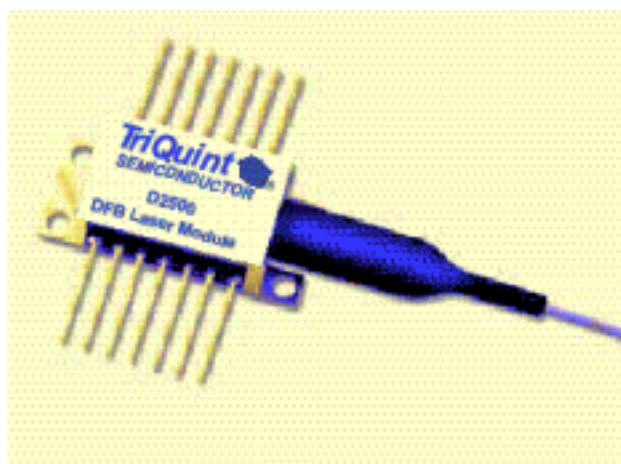


## D2575 High Power, up to 200KM, Wavelength-Selected, Direct Modulated Isolated DFB Laser Module

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The 1.5  $\mu\text{m}$  D2575 Laser Modules are available in a 14-pin, hermetic, butterfly package.

### Features

- ITU wavelengths available from 1528.77 nm —1563.86 nm
- SONET/SDH compatible up to OC-48/STM-16
- Temperature tunable for precise wavelength selection
- Integrated optical isolator
- High-performance, multiquantum well (MQW) distributed-feedback (DFB) laser
- Industry-standard, 14-pin butterfly package
- Characterized at 2.488 Gb/s (NRZ)
- InGaAs, PIN photodetector back-facet monitor
- Low threshold current
- High-reliability, hermetic packaging
- Excellent long-term wavelength stability can eliminate the need for external wavelength locker
- Qualified to meet the intent of *Telcordia Technologies*\* TR-NWT-000468

\* *Telcordia Technologies* is a trademark of Telcordia Technologies, Inc.

### Applications

- Sone/SDH OC-48/STM-16 applications
- Very long reach (200KM)
- Metro DWDM
- Digital video

### Description

The D2575-type Direct Modulated Isolated DFB Laser Module contains an internally cooled, InGaAs, MQW, distributed-feedback (DFB) laser designed for 1.5  $\mu\text{m}$  applications. Also, the D2575-type is high performance, high power directly modulated laser designed for very low dispersion penalty at OC-48/STM-16 (2.5Gb/s) data rates for a very long reach up to 200km. TriQuint Optoelectronics D2575-type laser is provided at ITU-T wavelength standard at 100GHz spacing for WDM applications.

D2575-type eliminates the need for optical amplifiers in many DWDM applications.