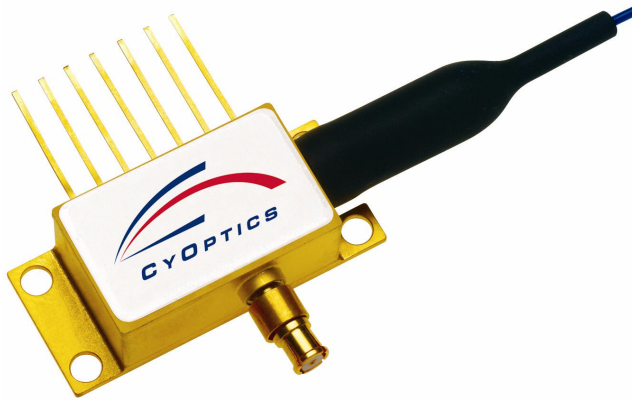


E2560-Type 10 Gb/s EML Modules for 40 km DWDM Transmission



Features

- Integrated electroabsorptive modulator
- 1.5 μm wavelength
- Characterized for 10 Gb/s operation
- For use up to 40 km at 10 Gb/s
- Low modulation voltage
- Temperature stabilized
- Wavelength selectable to ITU-T standards
- Ultrastable wavelength aging for DWDM

Description

The E2560 EML is designed for 10 Gb/s DWDM transmission applications. It integrates a CW laser with an electroabsorptive modulator in the same semiconductor chip and is an extension of CyOptics' existing E2500-series of devices. These devices can replace external modulators that are often bulkier, more expensive, and require more drive electronics than the EML. Both series use a small-profile *GPO*[™] connector to handle the RF signal. The package also contains a thermoelectric cooler, thermistor, rear-facet monitor photodiode, and an optical isolator.

The E2560 is available for transmission distances of up to 40 km, and is available in a range of ITU-T wavelengths for use in DWDM systems operating at 10 Gb/s per channel.

The nominal input impedance of the E2560 version is 50 Ω . The package is qualified to the *Telcordia Technologies*[™] TA-TSY-000468 standard.

The devices exhibit excellent wavelength stability, supporting operation at 100 GHz channel spacing over 20 years (assuming an end-of-life aging condition of $<\pm 100$ pm). Typically, no external wavelength stabilization is required in systems of this type, using the CyOptics E2560 EMLs. The package also offers excellent stability of wavelength vs. case temperature, with a maximum coefficient of ± 0.5 pm/ $^{\circ}\text{C}$.

**For full product datasheets and other information,
please contact us at: sales@cyoptics.com**