

1610/11-Series

MSA-compatible 2.5 Gb/s Cooled DFB TOSA



Product Brief



Description

The 1610/11-Series 2.5 Gb/s transmitter optical subassembly (TOSA) integrates a high-speed laser, a monitor photodiode and a micro-TEC in a small form-factor metallized ceramic package. It is designed for use in small form-factor pluggable (SFP) transceivers and other types of optical modules for high-speed telecommunication and data applications including WDM SONET OC-48, SDH STM-16, Fiber Channel and Gigabit Ethernet.

The 1610/11-Series is available in the full range of C band ITU-T wavelengths operating at 2.5 Gb/s per channel. The device exhibits excellent wavelength stability, supporting operation at 100 GHz channel spacing over 15 years (assuming an end-of-life aging condition of $<\pm 90$ pm), with low hazard rates (~ 100 FIT wearout over 20 yrs.). L band versions are also available, as shown in the Ordering Information tables.

Note: Avago's 1610 and 1611 type TOSA is available with LC receptacle (for use in DWDM SFP and other pluggable transceivers) or fiber pigtail (for use on line cards)

Features

- Ultra small form factor 9-pin MSA DFB TOSA
- Data rates up to 2.7Gb/s
- For use up to 200 km (4000 ps/nm) at 2.5 Gb/s
- +6 dBm typical optical output power (200km version)
- Wavelength selectable to ITU-T grid wavelengths, C band and L band wavelengths
- Suitable for use in 100GHz channel spacing DWDM systems
- Temperature stabilized; can also be operated in partially cooled mode for CWDM applications
- Maximum power consumption less than 0.2W
- LC receptacle or pigtailed versions available
- 25 Ω single-ended data input
- Case operating temperature ranges:
 - 5 to +75°C (standard)
 - 40 to +85°C (extended)

Applications

- SFP Transceivers for DWDM, CWDM and SONET/SDH, GbE & Fibre Channel
- Line cards

For product information and a complete list of distributors, please go to our web site: www.avagotech.com

Avago, Avago Technologies, and the A logo are trademarks of Avago Technologies in the United States and other countries.

CyOptics and the CyOptics logo are trademarks of CyOptics, Inc. in the United States and other countries.

Data subject to change. Copyright © 2005-2013 CyOptics, Inc. All rights reserved.

AV02-4116EN - June 5, 2013

