

1655/ 56- Series

XMD MSA-compatible 10 Gb/s Cooled EML TOSA



Product Brief



Description

The 1655 (40km) and 1656 (80km) - Series XMD MSA compatible 10 Gb/s transmitter optical subassembly (TOSA) integrates a high-speed electroabsorptive (EML) laser, a monitor photodiode and a micro-TEC in a small form-factor metallized ceramic package. It is designed for use in SFP+ 10Gb/s transceivers and other types of optical modules for high-speed telecommunication and data applications.

The 1655/ 56 -Series is available in the full range of C-band ITU-T wavelengths operating at 10 Gb/s per channel. The device exhibits excellent wavelength stability, supporting operation at 100 GHz channel spacing over 20 years (assuming an end-of-life aging condition of $<\pm 90$ pm), with low hazard rates (~ 100 FIT wearout over 20 yrs.).

1655/ 56 -Series uses Avago's newest iteration of EML chip, which operates at a higher temperature than its predecessor, and therefore reduces TEC power dissipation when in cooling mode. Overall power dissipation in SFP+ and other transceivers can therefore be reduced significantly.

Features

- Ultra small form-factor 8-pin XMD MSA TOSA
- Supports data rates up to 11.3Gb/s
- For use up to 80km (1600 ps/nm) at 10 Gb/s
- Up to +2 dBm typical optical output power
- Wavelength selectable to ITU-T standards covering the full C-band with extended channels
- Suitable for use in 100GHz channel spacing in DWDM systems
- Temperature stabilized
- Very low TEC power consumption
- LC receptacle, with standard and short flex options
- 50 Ω single-ended data input
- Case operating temperature ranges:
 - 5 to +75°C (standard)
 - 40 to +90°C (extended)

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.

AV02-4119EN - June 5, 2013

