

## 1608L1-Series

MSA-compatible 4.25Gb/s Cooled DWDM DFB TOSA



## Product Brief



### Description

The 1608-Series 4.25 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 4X Fiber Channel and 4G Gigabit Ethernet.

The 1608-Series is available in the full range of C band ITU-T wavelengths operating at 4.25 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 ( $\sim 100$  FIT wearout over 20 yrs.).

1608L1xx is the standard commercially available variant.

### Features

- Ultra small form factor 9-pin MSA DFB TOSA
- Data rates up to 4.25Gb/s
- For use up to 80 km (1600 ps/nm) at 4.25 Gb/s
- +3 dBm minimum optical output power
- Wavelength selectable to C-band ITU-T grid 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 0.25W
- LC receptacle
- $25\Omega$  single-ended data input
- Case operating temperature range: -5 to +75°C

For product information and a complete list of distributors, please go to our web site: [www.avagotech.com](http://www.avagotech.com)

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