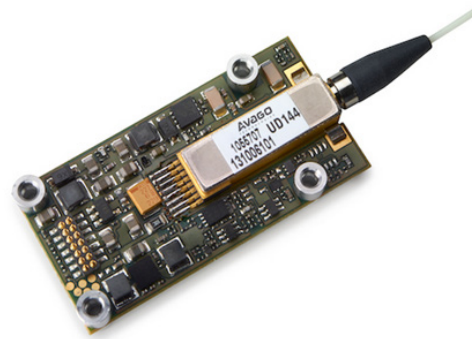


AFCU-UITLAXX

Micro Integrable Tunable Laser (UITLA) Module



Product Brief



Description

Avago Technologies' AFCU-UITLAXX is an isolated micro integrable tunable laser assembly (UITLA) module with internal temperature control, power and wavelength monitoring capability that is tunable over the C-Band or L-band. The module is compliant with the standards established in the Micro-Integrable Tunable Laser Assembly Implementation Agreement (OIF-MicroITLA-01.0), which articulates the characteristics of the UITLA for the purpose of achieving a multiple source agreement (MSA) amongst suppliers. The laser performs as a stable single-frequency source over the life of the module and conforms to all the required evaluation and qualification testing specifications outlined in this document.

The UITLA module is intended to be used in wavelength-division-multiplexing (WDM) applications that require a narrow linewidth such as coherent optical transmission. The module can be operated at variable optical output power levels while maintaining frequency lock. The channel assignment is user defined through standard OIF commands, based on starting frequency and grid spacing, providing a high degree of channel flexibility. The fine frequency tuning feature allows high resolution active frequency adjustment while maintaining power and linewidth control.

Features

- External Cavity Laser construction generates a narrow instantaneous linewidth: <100kHz
- Stable and reliable external cavity (ECL) design with no moving elements
- Available in fixed optical power or variable output power versions
- OIF Compliant Variable Optical Power Tuning, +8 to +16dBm
- OIF Compliant user-definable optical frequency channel definition enabling “flex-grid” or “grid-less” architecture
- OIF compliant Fine frequency tuning
- 191.500 to 196.250 THz default tuning range
- Single +3.3V power supply
- $\leq 3.5W$ power dissipation at +75°C case
- Form Factor: 20 x 40 x 7 mm
- Fine Tuning Frequency Range: ± 6 GHz

Applications

- DWDM light source
- Coherent Optical Transmission

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

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