



Photo Release -- Avago Technologies Introduces New Micro-ITLA for Coherent Applications

March 23, 2015

New Micro-ITLA Delivers Very Narrow Linewidth, Low Phase Noise and Superior Frequency Accuracy Improving System Performance for Next Generation 100G/400G Networks

SAN JOSE, Calif. and SINGAPORE, March 23, 2015 (GLOBE NEWSWIRE) -- Avago Technologies (Nasdaq:AVGO), a leading supplier of analog interface components for wireless, wireline, storage and industrial applications, today announced the availability of its new micro-integrated tunable laser assembly (Micro-ITLA) device, the AFCU-UITLAXX. The device is a high-performance, narrow-linewidth Micro-ITLA component designed for both the transmission and local oscillator laser in coherent dense wave division multiplexing (DWDM) systems.

A photo accompanying this release is available at <http://www.globenewswire.com/newsroom/prs/?pkgid=31546>

[AFCU-UITLAXX](#)

Based on Avago's proprietary external cavity laser (ECL) technology and proven indium phosphide (InP) and silica-on-silicon chip technology and packaging platform, the new Micro-ITLA device delivers a very narrow linewidth, low phase noise and superior frequency accuracy improving system performance by reducing signal to noise penalties. With no moving parts, the device achieves excellent operational shock and vibration resistance.

Besides its narrow linewidth, the new Micro-ITLA device features a high optical output power, off-grid tuning capability, a gridless channel plan and in-operation wavelength and power adjustment capability suitable for applications in 100G PM-QPSK and 200G 16-QAM modulation formats. The device conforms to the OIF Micro-ITLA implementation agreement. With only one-third (1/3) the size and 25% less in power consumption compared to the industry standard large form factor ITLA, Avago's new Micro-ITLA device enables customers to migrate to smaller size optical linecard solutions or pluggable transceivers for next generation 100G and 200G/400G transmission systems.

Product Highlights

- Form Factor: 20 x 40 x 7 mm
- Variable Optical Power Tuning: +8 to +16 dBm
- Narrow Linewidth: <100kHz
- User-defined Optical Frequency Channel Enabling "Flex-grid" or "Gridless" Architecture
- Fine Tuning Frequency Range: +/-6 GHz
- Electrical Power Consumption: <3.5 W (16 dBm, 75 °C)

"The availability of high-performance, narrow-linewidth Micro-ITLA like the Avago AFCU-UITLAXX shall help accelerate the deployments of 100G and 400G transmission systems," said Stefan Rochus, Director of Optical Components Product Marketing at Avago Technologies. "Leveraging Avago's volume proven optical and packaging technologies, our new Micro-ITLA enables transceiver and linecard manufacturers alike to deliver high performing and more efficient coherent DWDM solutions."

Avago will be showcasing the new Micro-ITLA device in the Avago booth 1567 at the OFC 2015 exhibition in Los Angeles, California from March 24th to 26th.

Availability

Avago is ramping up production of its C-Band tunable AFCU-UITLAXX now with L-Band tuning capability becoming available in the second half of 2015. Avago is currently accepting orders for the new Micro-ITLA product. Please contact your local Avago Technologies sales representative for samples and pricing.

Further information on the AFCU-UITLAXX is available online at

http://www.avagotech.com/pages/en/fiber_optics/optical_components/photonic_ic_components/afcu-uitlaxx/

About Avago Technologies

Avago Technologies is a leading designer, developer and global supplier of a broad range of analog, digital, mixed signal and optoelectronics components and subsystems with a focus in III-V compound semiconductor design and processing. Backed by an extensive portfolio of intellectual property, Avago products serve four primary target markets: wireless communications, wired infrastructure, enterprise storage, and industrial and other. For more information, visit Avago's website: www.avagotech.com.

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