

## **Furukawa Electric Announces Commercial Production of Micro ITLA for 400 Gb/s Optical Coherent Transmission**

**ECOC 2014, Cannes, France**, September 18, 2014 - Furukawa Electric Company, Ltd. has commenced commercial production of its micro Integrated Tunable Laser Assembly (ITLA), a key component in ultra-high-speed optical digital coherent transmission devices. The integration of the micro ITLA into optical digital coherent transmission equipment is now available to telecommunications carriers, supporting more efficient next generation transmission systems.

“The telecommunications industry is accelerating the deployment of 100 Gb/s, or even faster 400 Gb/s, transmission systems,” says Hiro Matsushita, GM, FITELE Division of Furukawa Electric. “These new systems use multilevel modulation like 16-QAM for achieving 400Gb/s, as well as elastic spectrum allocation to improve the spectral efficiency of the network. A more efficient micro ITLA is critical for such new complex and high-performing systems.”

The Furukawa micro ITLA is a laser light source that has been made smaller and consumes less electric power, while complying with the same Optical Internetworking Forum (OIF) standard as the conventional ITLA. Furukawa Electric has developed the micro ITLA with a narrower line width, a finer wavelength grid and better wavelength stability, which are required for higher speed digital coherent transmission and flexible grid in the elastic optical network technology.

Innovation in Furukawa manufacturing technologies has enabled the size reduction of the micro ITLA to 37.5 x 20 x 7.5 mm, half the size of a conventional ITLA. In addition, power consumption was reduced by 30% in comparison with that of conventional ITLAs, driven by performance improvements in the laser chip.

### **About Furukawa Electric Company, Ltd.**

Furukawa Electric Co. Ltd. ([www.furukawa.co.jp/english](http://www.furukawa.co.jp/english)) is an \$11 billion global leader in the design, manufacture and supply of fiber optic products, network products, electronics components, power cables, nonferrous metals, and other advanced technology products.

Headquartered in Tokyo, Japan, Furukawa operates production facilities on five continents around the globe, including OFS in the U.S.A., Europe and China.

### **About OFS**

OFS is a world-leading designer, manufacturer and provider of optical fiber, optical fiber cable, FTTX, optical connectivity and specialty photonics products. Our marketing, manufacturing and research divisions listen to customers and work together to provide innovative products and solutions that traverse many different applications as they link people and machines worldwide. Between continents, between cities, around neighborhoods, and into homes and businesses of digital consumers we provide the right optical fiber, optical cable and components for efficient, cost-effective transmission.

OFS' corporate lineage dates back to 1876 and includes technology powerhouses such as AT&T (NYSE: T) and Lucent Technologies (now Alcatel-Lucent, NYSE: ALU). Today, OFS is owned by Furukawa Electric, a multi-billion dollar global leader in optical communications. Headquartered in Norcross (near Atlanta) Georgia, U.S., OFS is a global provider with facilities in Avon, Connecticut; Carrollton, Georgia; Somerset, New Jersey; and Sturbridge, Massachusetts, as well as in China, Denmark, Germany and Russia.

For more information, please visit <http://www.ofsoptics.com>

###

**PR Contact:**

Sherry Salyer  
OFS Public Relations  
[shsalyer@ofsoptics.com](mailto:shsalyer@ofsoptics.com)

**Technical Contact:**

Takahiro Okada  
Furukawa Electric  
[t-okada@ch.furukawa.co.jp](mailto:t-okada@ch.furukawa.co.jp)