

OFS AND FURUKAWA ANNOUNCE VOLUME PRODUCTION OF HPU 42000 SERIES RAMAN AMPLIFIERS WITH AUTOMATIC GAIN CONTROL

Automatic Control Facilitates the Introduction of Systems Communications

OFC/ NFOEC 2012, Booth 2125, Los Angeles, California, March 5, 2012 – Furukawa Electric Co., Ltd., and the U.S. based OFS, Specialty Photonics Division, today announced volume production of their HPU 42000 series Raman amplifiers with built-in automatic gain control (AGC) function. The Raman amplifier offers ease of system implementation and excellent noise characteristics, which in combination with erbium-doped fiber amplifiers (EDFAs) improves optical signal to noise ratio (OSNR) as well as compensates for optical loss resulting from optical transmission lines and optical components. With the built-in AGC function, the output power per channel at each amplifier is kept constant by controlling the gain automatically, thus resulting in simplicity as well as better integration in transmission systems.

This product will be on display in the OFC/NFOEC 2012, the world's largest international telecommunication conference and exhibition, which opens in Los Angeles on March 6th.

Background of commercialization

Furukawa is a global leader for 1480-nm pumping lasers, a key device of fiber-optic amplifiers, and continues to bring cutting edge, high-quality products to the worldwide market as an industry leader. The company has also registered several relevant patents for Raman amplifiers in Japan and the United States.

As ultra-high bit rate optical transmission of as high as 100 Gb/s is progressively implemented

in the future, the demand for Raman amplifiers with excellent noise characteristics is



The HPU 42000 Series

expected to increase significantly, because Raman amplifiers in combination with erbium-doped fiber amplifiers (EDFAs) can effectively improve OSNR, thus allowing longer reach and higher capacity optical networks. To fulfill market needs, Furukawa developed the Raman amplifier (HPU42000 Series) with a built-in AGC function in March 2011 and commenced its volume production in December 2011.

Product Specifications may be found at

http://www.furukawa.co.jp/fitel/english/amplifiers/main_amplifiers.htm.

About Furukawa Electric Company, Ltd.

Furukawa Electric Co. Ltd. (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 and the OFS, Specialty Photonics Division, in the USA.

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About OFS

OFS is a world-leading designer, manufacturer and provider of optical fiber, optical fiber cable, connectivity, FTTx and specialty photonics solutions. Our marketing, sales, manufacturing and research teams provide forward-looking, innovative products and solutions in areas including Telecommunications, Medicine, Industrial Automation, Sensing, Government, Aerospace and Defense applications. We provide reliable, cost effective optical solutions to enable our customers to meet the needs of today's and tomorrow's digital and energy consumers and businesses.

OFS' corporate lineage dates back to 1876 and includes technology powerhouses such as AT&T and Lucent Technologies. Today, OFS is owned by Furukawa Electric, a multi-billion dollar global leader in optical communications.

For more information, please visit www.ofsoptics.com.

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