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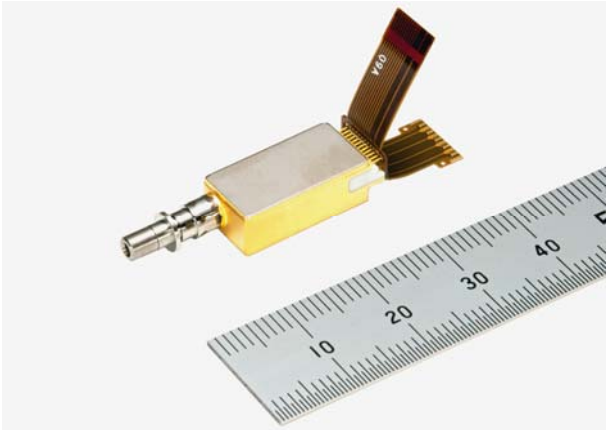
Mitsubishi Electric to launch 4-wavelength integrated 100Gbps EML-TOSA

Will help to downsize facilities and expand high-speed 100Gbps optical transmission networks

TOKYO, December 17, 2013 – Mitsubishi Electric Corporation (TOKYO: 6503) announced today that it has developed a laser diode-transmitter optical subassembly (TOSA) that enables 100Gbps optical transmission in one fiber using four-channel wavelength-division multiplexing, which will help to downsize 100Gbps communication facilities and expand high-speed 100Gbps optical transmission networks. Shipments will begin on April 1, 2014.

The FU-401REA TOSA features four electro-absorption modulators with laser diode (EML) and an optical multiplexer integrated in one compact package. This is one of the world's lowest power and most compact EML-TOSA solutions for IEEE 100GBASE-LR4 applications.

The FU-401REA will be exhibited at the Optical Fiber Communication Conference and Exposition 2014 (OFC) in San Francisco, California from March 11 to 13, 2014.



FU-401REA TOSA

As 10Gbps optical network interfaces give way to 40Gbps and 100Gbps interfaces, installations in confined spaces are requiring the use of smaller and lower-power equipment. Needs for downsized, low-power EML-TOSAs led to the development of Mitsubishi Electric's FU-401REA TOSA, which will help meet the demands for smaller equipment and thereby expand the market for 100Gbps EML-TOSAs.

Product Features

1) 100Gbps in one fiber by wavelength division multiplexing (WDM)

- WDM solution using four wavelengths, each 25Gbps, for a 100Gbps optical signal in one fiber.
- Compliant with IEEE 100GBASE-LR4.

2) Miniaturized optical transceivers

- 75%-reduced footprint compared to existing FU-412REA model by integrating four individual TOSAs into one.
- Package size complies with common specifications for small CFP2 optical-transceiver modules.
- Contributes to improved transceiver module efficiency by adopting flexible printed wiring board featuring easy mounting.

3) Lower-power optical transceivers

- New EML chip can operate at up to 15 degrees Celsius higher than existing FU-412REA.
- Cooling power reduced by 50% to help lower the operating power of optical-transceiver modules.

Other Features

Wavelength: 1.3-micrometer band, four-channel LAN-WDM

Maximum transmission distance: 10km

Output power: -2 to +2dBm

Operating power: 2W maximum

Size: 8.8mm × 26.5mm × 5.6mm

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About Mitsubishi Electric Corporation

With over 90 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 3,567.1 billion yen (US$ 37.9 billion*) in the fiscal year ended March 31, 2013. For more information visit http://www.MitsubishiElectric.com

*At an exchange rate of 94 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2013