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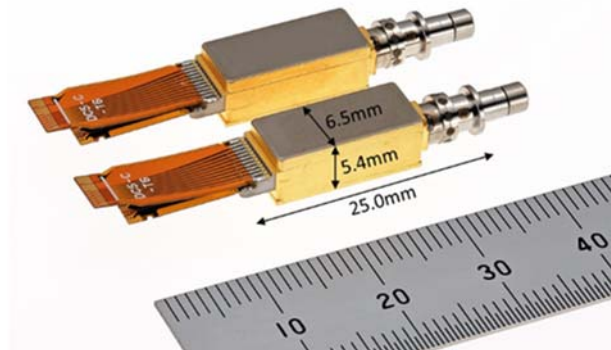
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Mitsubishi Electric to Launch Compact Integrated 400Gbps EML-TOSA

Will support high-speed transmissions and large-capacity of optical fiber communication

TOKYO, March 7, 2018 – [Mitsubishi Electric Corporation](http://www.mitsubishielectric.com) (TOKYO: 6503) announced today that it will begin shipping a laser-diode transmitter optical subassembly (TOSA) capable of supporting 400Gbps optical transmissions on April 1. The new TOSA, when used in a set of two, can be used in the industry's first electro-absorption modulated laser diode (EML)-TOSA solution for IEEE 400GBASE-LR8 applications. The device will be displayed at the Optical Fiber Communication Conference and Exhibition 2018 (OFC) in San Diego, California from March 13 to 15.



Compact Integrated 400Gbps EML-TOSA FU-402REA-41 (top) and FU-402REA-42 (bottom)

In response to the demand for increasing data capacity, Mitsubishi Electric's new laser-diode TOSA offers 400Gbps transmission capability for large-capacity communication facilities (data centers, etc.) and high-speed optical transmission networks.

Product Features

Large-capacity, high-speed 400Gbps communication

- Multiple transmission of eight wavelengths by two TOSAs
- 50Gbps/wavelength (400Gbps in eight wavelengths) achieved with 4-level pulse-amplitude modulation (PAM4) method

- Capable of 10km transmission thanks to EML chip featuring high extinction ratio and high power
- Package size complies with common specifications for CFP8 optical transceivers (when using two TOSAs)

Sales Schedule

Product	Model	Features	Shipment date
Compact Integrated 400Gbps EML-TOSA	FU-402REA-41 (for short wavelengths)	- EML for 1273.54, 1277.89, 1282.26 or 1286.66nm wavelength - LC receptacle	April 1, 2018
	FU-402REA-42 (for long wavelengths)	- EML for 1295.56, 1300.05, 1304.58 or 1309.14nm wavelength - LC receptacle	

Specifications

Model	FU-402REA-41	FU-402REA-42
Laser diode	1273.54, 1277.89, 1282.26 or 1286.66nm	1295.56, 1300.05, 1304.58 or 1309.14nm
Transmission distance	10km	
Output power	0dBm (typical)	
Extinction ratio	6dB (typical)	
Operating power	2W (maximum)	
Size	6.5mm x 25.0mm x 5.4mm	

Environmental Awareness

This product is compliant with the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive 2011/65/EU.

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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 4,238.6 billion yen (US\$ 37.8 billion*) in the fiscal year ended March 31, 2017. For more information, visit: www.MitsubishiElectric.com

*At an exchange rate of 112 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2017