

Blind-Mate Optical Connector for ELSFP

The Sumitomo Blind-Mate Optical Connector facilitates a self-aligned, tool-less, blind-mate optical connection for a CPO external light source module (ELSFP). This connector is engineered to accommodate up to two optical fiber connector ferrules, allowing for the mating of two pairs of MT-like ferrules in a single connection. One connector is integrated into an ELSFP module, while the other is affixed to a complimentary host electrical connector. Both connectors feature multi-step alignment capabilities, ensuring precise and low-loss mating of the optics. Additionally, these connectors are capable of supporting polarization maintaining fibers.

High-Power Continuous Wave (CW) Lasers.

Sumitomo high-reliability, high-power CW DFB lasers operating at both C- and O-bands are critical elements for silicon photonic based transmission approaches such as those used in this co-packaging demonstration. They can be operated in an uncooled environment emitting up to 200mW of power from a single optical fiber at CWDM wavelengths from 1271nm to 1331nm as well as 1550nm.

About Sumitomo Electric Industries, Ltd.

Sumitomo Electric Industries, Ltd. was established in 1897. With its history in electric wire and cable manufacturing, the company has invested heavily in research and development to establish and expand new businesses. These efforts have allowed it to create new products and new technologies, as well as diversify its business fields. Currently, the company operates on a global basis in five business segments: Automotive; Infocommunications; Electronics; Environment & Energy; and Industrial Materials. Sumitomo Electric will continue to contribute to society through environmentally friendly and fair business activities.

For more information: <http://global-sei.com>

SEI Optical fiber connector products visit, https://sumitomoelectric.com/fiber_optic_interconnect

SEI Laser communications products visit, <https://www.sedi.co.jp>

