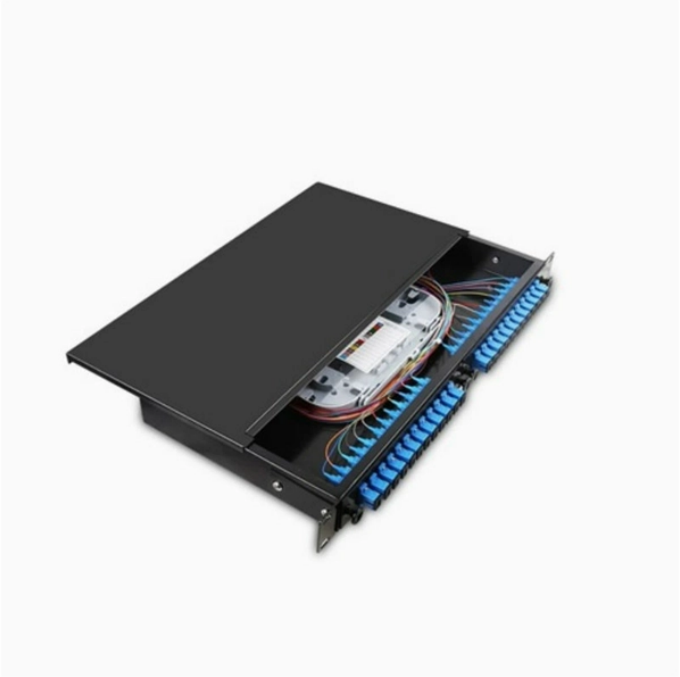
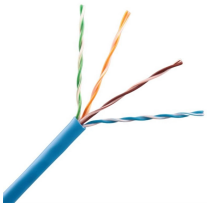
Eocb optoelectronic fusion board

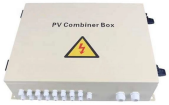


Eocb optoelectronic fusion board

The commercial adoption of electro-optical printed circuit board (EOCB) technology will be accelerated by the development of industrial and conformity standards for high volume fabrication, ...



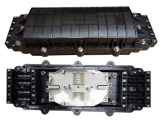
Optical signal routing is realized by embedded board-level ...



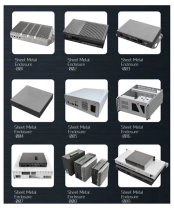
The concept and experimental results to manufacture electrical-optical circuit boards (EOCB) with buried optical waveguides using thin-glass sheets (display glass) are presented.

The circuit board assembly is presented, as well as the concept developed for the optical coupling in the module-to-board and board-to-backplane coupling, and the assembly of the pluggable ...

Currently, he is leading the team EOCB at Fraunhofer IZM, researching on electrical optical circuit boards made of glass. His research interests include ion-exchange in glass, optical ...



Optical transmission in circuit boards is highly desirable to avoid the wiring chaos problem. By changing the perspective from electrical printed circuit board to a ...

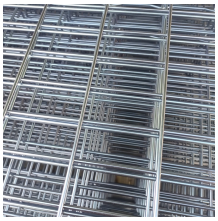


Basis for the design of EOCBs are the required optical signal transmission properties. Thereafter, the devices for the electro-optical conversion are chosen and the optical coupling approach is defined. ...

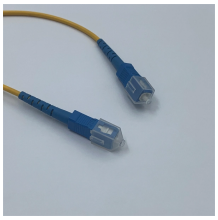
Combining electrical and optical layers in a single circuit board or chip can be a solution to all of these challenges. Fraunhofer IZM produced a first concept of such a combined electro-optical circuit board ...

Optical signal routing is realized by embedded board-level waveguides, the so-called electro-optical printed circuit board (EOCB). Chip-on-board (COB) direct attachment is considered a ...

Optical transmission in circuit boards is highly desirable to avoid the wiring chaos problem. By changing the perspective from electrical printed circuit board to a photonic solution, the idea of the electro ...



Integrated Micro Optics for Fiber Sensing? The future is bright!

	Photonic system integration technologies PCB level: EOCB, integrated optical waveguides, lamination, assembly of connectors Interposer level: lens arrays, (TGV, soldering, thin film) Interconnection ...

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