

Vertical coupling for silicon photonics

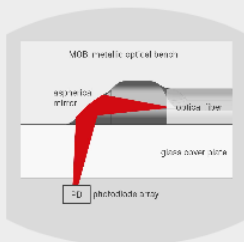
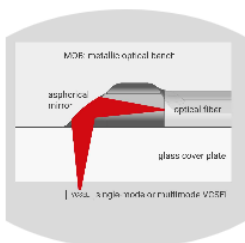
The MMC is perfect for vertical coupling to silicon photonics that use diffractive grating couplers. Micro mirrors bend and focus light between the chip and optical fibers. MMC is actively aligned to the grating couplers to minimize coupling losses.

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Connecting fibers to laser arrays

MMCs can be used to connect arrays of optical fibers to laser arrays. Optical designs are available for connecting Vertical Cavity Surface Emitting Lasers (VCSELs) to arrays of optical fibers.

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Connections for receiver arrays

Another design is available for connecting optical fibers to arrays of photodiodes. An aspherical mirror surface reduces the mode field diameter and reimages the core of the optical fiber onto the surface of the photodiode array.

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Beam Expansion

Light from an array of optical fibers can be expanded with a mirror array to increase the mode field and reduce impact of particles and dust on coupling efficiency. Conversely, expanded beams can be focused into optical fibers.

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