

Chiral Photonics, Inc. demonstrates Pitch Reducing Optical Fiber Array (PROFA) enabling highly dense 2D fiber array interfaces

Pine Brook, NJ, 7-Feb-2012. The PROFA product line is an evolution of Chiral Photonics' successful Spot Size Converting Interconnects (SSCIs) that interface standard optical fibers with photonic integrated circuits (PICs). PROFA is a multichannel, two-dimensional dense fiber array best suited for vertical interfacing to, for example, VCSELs, receivers or vertically coupled gratings. A monolithic glass structure incorporating an adiabatic taper and integrated pigtailed brings multiple optical channels close together for efficient, space-saving coupling. The technology reduces channel pitch while tailoring numerical aperture (NA) of individual channels to meet customers' needs.

At OFC/NFOEC 2012 in Los Angeles, Chiral Photonics will display a 50+ channel device with singlemode waveguides in the visible spectral range with channel-spacing of less than 40 μm .

Traditional solutions for coupling photonic ICs utilize GRIN lens technology, lensed fibers with V-grooves or other solutions which rely on air gaps and more complex production alignment techniques. These techniques are suitable for moderate channel densities but pose substantial thermal expansion/excursion and related reliability challenges. An additional limitation of a conventional, lens-based coupling technique is its inability to control channel spacing and NA independently.

Chiral Photonics will display the PROFA at the exhibition floor's entrance inside Go!Foton's booth # 1603.

About Chiral Photonics

Chiral Photonics, founded in 1999, produces building block, fiber-based components that enable faster, smaller, more discerning and more environmentally immune devices and equipment. The company, in addition to more than 30 patents issued and pending, has won numerous grants including awards from the National Science Foundation which commended chiral technology as possibly, "one of the most significant recent advances in the field of polarization and wavelength control."

Chiral Photonics is headquartered in Pine Brook, NJ, USA. More information on Chiral Photonics can be found on the company's web site: www.chiralphotonics.com.

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