## Integrated Optical Components on LiNboz

Optolink offers a wide range of Integrated Optical Devices based on state of the art HTPE (High Temperature Proton Exchanged) technology on LiNbO<sub>3</sub> substrates, in which Perspective Research Department at Optolink is among the world leaders. Integrated optical devices utilise electrooptical modulation and photorefractive Bragg gratings for the lightwave control in order to offer high performance devices for fiber optic communication systems, fiber sensors and scientific applications.

The technology developed by Optolink has allowed us to develop a wide range of custom devices in which numerous functions are integrated into the same optical circuit. Furthermore, we are prepared to collaborate with the customer in the design and optimization of the devices. We aim at satisfying every custom requirement by using our technological expertise.



## **Devices**

- Phase and intensity electro-optical modulators
- Multifunctional integrated optical chips for gyros
- High speed polarization insensitive switches
- PPLN devices

## Multifunctional Integrated Optical Chip for Fiber-optic Gyroscope

MIOC is a monoblock hermetic product. It includes a linear polarizer, Y-junction coupler and two electro-optical phase modulators.

	λ = 830 nm	λ = 1550 nm
Half-wave voltage, V	< 2	< 3
Polarization extinction ratio (fiber-to-fiber), dB	> 25	> 25
Intensity modulation, %	< 0.1	< 0.1
Fiber-to-fiber losses (for depolarized light), dB	< 7	< 6





## From optical components to navigation systems

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