

Lightron Fiber-Optic Devices Inc., based in Daejeon, South Korea, was founded in 1998 as a spin-off company of ETRI (Korea Electronics & Telecommunications Research Institute). Lightron offer a variety of components and subsystems for passive optical networks (PON) and other active components.

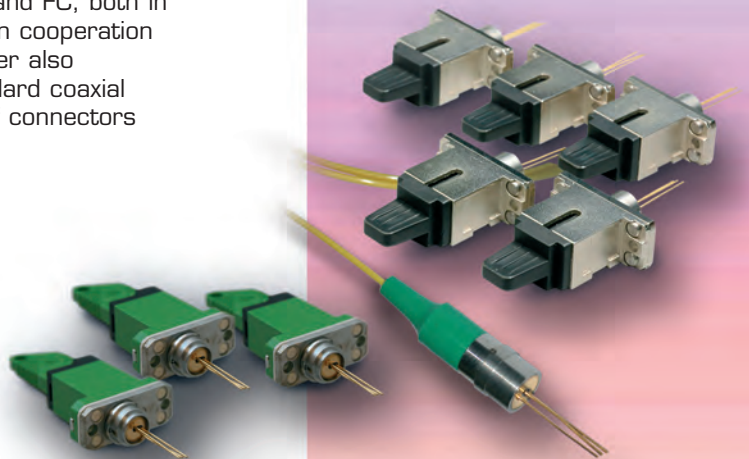
LIGHTRON
Fiber-Optic Devices Inc.

Analog Photodiodes

For applications like CATV, optical links for repeaters and other analog links, there are various versions of photodiodes. The most popular housing is the receptacle, because those can be placed as external connector without any further adapters right at the surface of the receiver box. Lightron can offer SC and FC, both in PC and APD finish with several options for flange. In cooperation with the company Diamond, municom is able to offer also E2000® receptacle. Of course there is also a standard coaxial housing with singlemode fiber with a wide choice of connectors available.

As an example, here are a few parameters:

- IM2: -67dBc min
- IM3: -75dBc min (according to Cenelec)
- responsivity: 0,85 min (@1550nm)
- back reflection: -35dB min



WDM Photodiode

The series LP3 offers a big advantage compared to current discrete solutions in the field. On nearly the same space as a regular photodiode, it comprises the PD chip as well as the optical coarse wavelength division multiplex (CWDM) filter. The incoming signal at desired wavelength is received by the PD chip, all other signals are reflected into the output fiber with an insertion loss of just 0.8dB.

This makes the device ideal for daisy chain applications where single wavelengths of a full band are extracted at different locations. In standard point-to-point applications the space of filter boxes can be saved.

- digital up to 2.5Gb
- analog version available IM2: -70dB (min)
- 30dB isolation
- 10 channels

