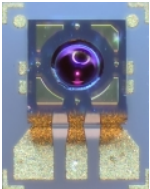


PD70X1 on Carrier 128 Gbaud Photodiode with Integrated Lens



PD70X1 is an InGaAs/InP very high-speed photodiode chip with a tapered coplanar transmission line and an integrated backside lens. The bottom illuminated p-i-n photodiode structure is optimized for 128 Gbaud coherent telecom receivers (800G ZR/ZR+), microwave photonic links, RF over fiber as well as test and measurement applications. It offers an excellent responsivity and high speed of response in the wavelength region from 1260 nm to 1620 nm.

The photodiode is flip-chip soldered on a metallized ceramic carrier with ground-signal-ground (GSG) contact layout. The large pads allow placement of multiple bonds.

Features

- High bandwidth: 70 GHz
- High responsivity: 0.5 A/W
- Easy optical coupling through integrated backside lens
- Large lens diameter: 100 μm
- Flip-chip soldered onto ceramic carrier with GSG contact layout