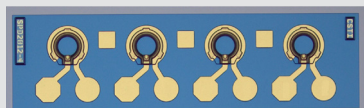


SPD2012-4

GaAs 1×4 Array PIN Photodiode



Key Features

- Flip chip ready
- 12 GHz bandwidth
- Telcordia qualified
- Die Level Hermeticity (DLH) Technology

Applications

- 40-Gigabit Ethernet (40GbE)
- ROSAs for QSFP+ 4×10 Gb/s
- Multimode datacom and telecom
- 4×10-Gb/s active optical cables
- Fiber-optic transceivers, receivers, and transponders



Description

The Broadcom® SPD2012-4 is a mesa-structured, GaAs-based PIN photodiode array offering four channels of 60-μm, top-side illuminated detection windows with a bandwidth capable of up to 12 GHz per channel. This product has high responsivity, low dark current, low capacitance and excellent reliability. The photodiodes' low parasitics make them ideal for high-speed, multimode, 4×10-Gb/s applications in combination with today's high-performance, 4×10-Gb/s, quad-channel transimpedance amplifiers (TIA).

Broadcom DLH Technology™ is applied to the semiconductor device coatings (passivation, etc.) on the photodiodes to enable the die themselves to act as the hermetic seal against GR-468-type environments.

Ordering Information

GaAs PIN Photodiode 1×4 Array: Blue tape, 6" hoop frames, max. 1600 die/frame	SPD2012-4
GaAs PIN Photodiode 1×4 Array: 2" Gel-Pak, vacuum release, max. 100 die/pack	SPD2012-4-GP