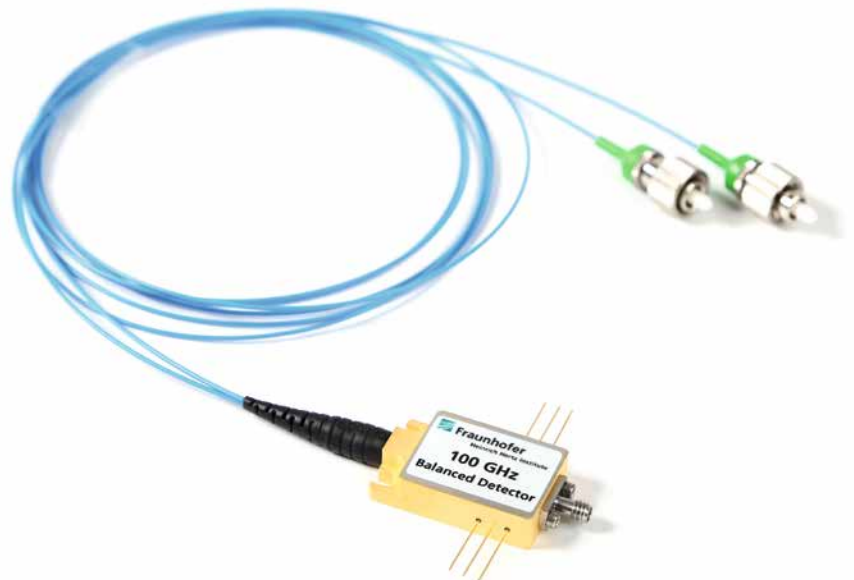


100 GHz BALANCED PHOTODETECTOR MODULE

AT A GLANCE

- high-speed balanced photodetector module for > 1 T/bps coherent telecom applications



Features

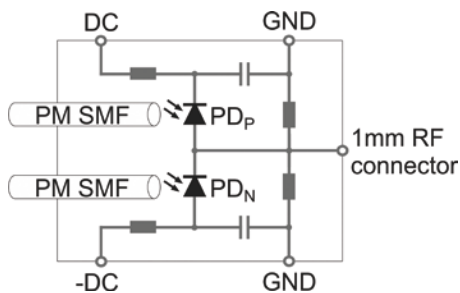
- up to 100 GHz 3 dB-bandwidth
- detection of 128 GBaud x-QAM signals with optical 90° hybrid
- integrated bias network
- low bias operation
- 1 mm RF connector

Applications

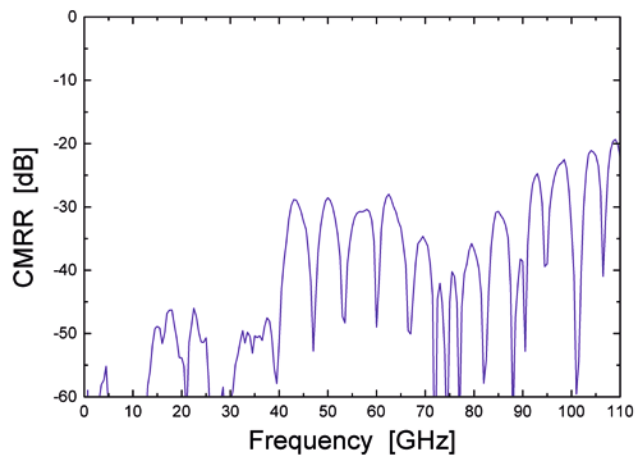
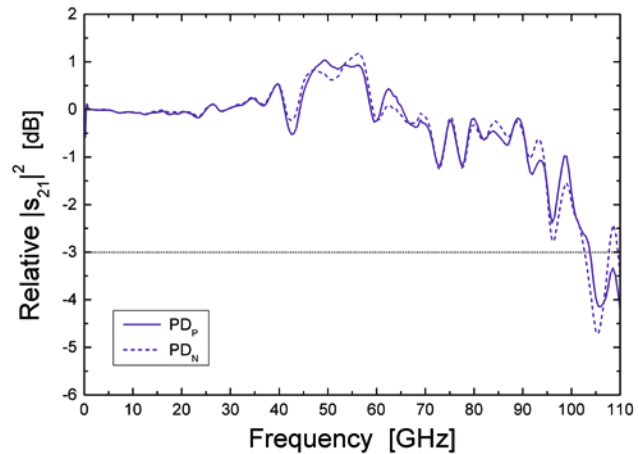
- telecommunication
- coherent test- & measurement systems
- microwave photonics

Technical Specifications

- wavelength: 1480 nm - 1620 nm
- 3 dB-bandwidth: up to 100 GHz
- low dark current: < 100 nA @ 3 V
- bias voltage: +2V and -2V
- 1 mm female RF connector
- RF output matched to 50 Ω
- optical input:
FC/APC PM SMF fibre



Schematic of Module



The Fraunhofer HHI

The Fraunhofer Heinrich Hertz Institute conducts research in the areas of video compression and processing, 3D systems, wireless communication as well as photonic components and networks.

Contact

Dr.-Ing. Patrick Runge
 Photonic Components
 Fraunhofer Heinrich Hertz Institute
 Einsteinufer 37 | 10587 Berlin | Germany
 Phone +49 30 31002-498
 patrick.runge@hhi.fraunhofer.de