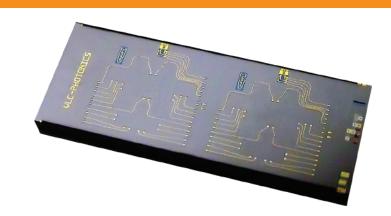


PIC design and prototype services

CASE STUDY

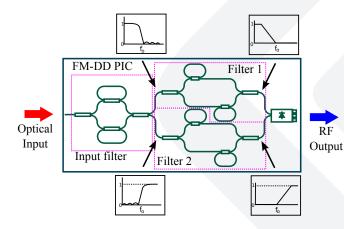
Frequency discrimination photoreceiver



- Application in microwave photonic links (antenna remotting, RADAR, CATV, ...)
- Designed to convert frequency modulation into simple intensity modulation
- Custom microring-assisted Mach-Zehnder interferometric optical filters
- Detection through high-speed 50 GHz balanced photodiode
- Optical chip manufacturing provided by:



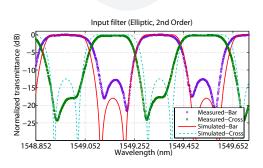
Heinrich Hertz Institute

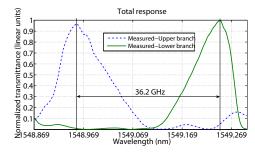


euroPIC



- Indium Phosphide (InP) chosen as the most suitable integration material
- Thermo-optic heaters included for chip response tuning
- Parametric design and simulation to obtain an optimized chip layout
- First-time-right manufacturing through stable generic process and advanced design techniques





Contact us for any optical integration requests!

www.vlcphotonics.com



IC microphotograph





