



Abstract

An Israeli company is looking for active and passive optical devices and components for analogue optical communication systems. Ideally, the offered devices / components should be high linear, low noise, high bandwidth (10 GHz) and low cost (less than 100 USD). The offered developed products should be fully developed.

Description

Current activities of the company

The Israeli company is active in development of active distributed antenna systems (DAS) for in-building cellular coverage. They are looking for off-the-shelf optical devices with better linearity, higher RF bandwidth and better noise characteristics.

On the desirable product / process.

The product is Active Distributed Antenna System. The product converts the 3G/4G cellular signals from RF domain to the optical domain and vice versa. Converted RF signal is propagated from the Central unit connected to the cellular base-station/repeater to the remote antenna units via the optical fiber.

The company assumes that improvement of the whole system performances and reduction of final product cost would lead to better competition with other providers.

The current technical problem the company wants to solve is a low input power dynamic range and relatively high noise.

The company believes that use of novel optical devices like single mode Vertical Cavity Surface Emitting Lasers with better linearity and noise performance, electro-absorption modulators, saturable absorbers could be suitable.

There are no specific requirements to take into consideration

All the parameters of the offered solutions / devices should correspond to standard dimensions and packaging,

Technical Specifications / Specific technical requirements of the request

All the parameters of the offered solutions / devices should correspond to standard dimensions and packaging.

For further information (including IPR status) please contact:

Gerrit Roessler
Phone: +49-30/63925178
Fax: +49-30/63925173
Email: roessler@tsb-berlin.de