

OPTICAL RECEIVER AND TRANSCEIVER USING THE SAME**ABSTRACT**

The present invention relates to an optical receiver for receiving at least one optical signal, comprising: a dielectric non-conductive substrate, a ground plane placed on the
5 dielectric non-conductive substrate, at least one photodiode placed on the dielectric non-conductive substrate, at least one amplifier and at least one opening provided in the ground plane. The at least one photodiode is adapted to receive the at least one optical signal, to convert the received optical signal in an electrical signal, and to output the electrical signal to an input of the at least one amplifier. The at least one opening surrounds the at least one
10 photodiode, and the at least one opening has a resonance frequency that is sufficiently higher than a predetermined fundamental frequency so as to reduce crosstalk at the input of the amplifier below a predetermined value. The present invention further relates to a transceiver using this optical receiver.

15 (Fig. 4)