An Optical Device Carrier

Abstract

A layout of a carrier in an optical component having the carrier and an optical device is described. The layout comprises a pair of terminals, a resistor connected to a first terminal, a wire bond connected in series with the resistor for connecting the resistor to an optical device, and a first ground patch connected to a second terminal and for connecting to an optical device for providing a common ground on a first surface on a substrate on which the carrier is based, whereby the pair of terminals, the resistor, the wire bond and an optical device form an optical signal transmission system in the optical component. In the layout, an optical device is disposable on a first edge of the first ground patch which forms a substantially geometric pattern on the carrier, and the first terminal is connected to the resistor through a conductor which in combination with the resistor forms a first substantially elongated pattern on the carrier that is disposed adjacent and longitudinally orthogonal to the first edge of the first ground patch. Also in the layout, the second terminal is connected to the first ground patch through a conductor that forms a second substantially elongated pattern on the carrier that is spaced apart from and substantially longitudinally parallel to the first substantially elongated pattern, and the second terminal is connected to the first ground patch through a first via that connects to a second ground patch on a different layer in the substrate which in turn is connected to the first ground patch through a second via.

Figures 5A and 5B