

ABSTRACT

There are provided an optical waveguide device in which a plurality of PLC type optical waveguide chips are optically coupled to one another at high accuracy by passive alignment, and a method of manufacturing the device. A plurality of optical waveguide chips are formed by cutting an optical waveguide device comprising an optical waveguide substrate having an optical waveguide of a predetermined pattern formed thereon and guide grooves formed on both sides of the optical waveguide on the optical waveguide substrate in the longitudinal direction thereof, in the direction of traversing the optical waveguide substrate at substantially right angle thereto and passing through an intersection of the optical waveguide. After a dielectric multilayer film filter is provided on an end surface of at least one of the optical waveguide chips, on which the intersection of the optical waveguide is exposing, guide pins are fitted in the guide grooves of each of the plurality of optical waveguide chips in the state that the filter is put between adjoining two chips, thereby to align the chips with one another. In such aligned state, the chips are brought into contact with one another through the filter and are fixed.