

ABSTRACT

The present utility model relates to an optical modulator, comprising: a first dielectric layer; a second dielectric layer, which is located on the first dielectric layer, wherein a waveguide structure and first conductive layers are provided in the second dielectric layer, the waveguide structure is electrically connected to the first conductive layers by means of via holes, and the first conductive layers are used for adjusting light which is transmitted by means of the waveguide structure; an insulating layer, which is located on a waveguide layer; a third dielectric layer, which is located on the insulating layer, wherein second conductive layers are provided in the third dielectric layer, and the second conductive layers are electrically connected to the first conductive layers by means of via holes; and a shielding structure, which comprises a first shielding structure and a second shielding structure that are electrically connected to each other, wherein the first shielding structure is located in the second dielectric layer, the second shielding structure is located in the insulating layer and the third dielectric layer, and the first shielding structure and the second shielding structure enclose to form a cage, the waveguide structures, the first conductive layers and the second conductive layers being located in the cage. The optical modulator realizes electromagnetic shielding between a modulator and the outside, thereby improving the modulation performance.

FIG. 1