

ABSTRACT

A pyroelectric infrared sensor device (10) capable of improving the relative detectivity while rendering it easier to change the relative detectivity and also reducing manufacturing cost thereof. This sensor device (10) includes a pyroelectric unit (12) having an alternate lamination of pyroelectric layers (14) and internal electrodes (16) with a predetermined thickness t . The end edges of the opposite internal electrodes (16) perpendicular to the length direction thereof are alternately exposed on the both terminate surfaces of the pyroelectric unit (12) while allowing the external electrodes (18) to be connected to the end edges of those internal electrodes (16), respectively. The pyroelectric infrared sensor device (10) is horizontally polarized among the internal electrodes (16) via the external electrodes (18) with respect to the infrared light receiving plane thereof. The end edges of the internal electrodes (16) perpendicular to the width direction thereof are exposed on the top and bottom surfaces of the pyroelectric unit (12) in a manner such that its top surface side will act as the light receiving plane of the pyroelectric infrared sensor device (10).

This Sheet Has Been Replaced

