PLASMA ADDRESSED LIQUID CRYSTAL DISPLAY DEVICE AND METHOD OF MANUFACTURING SAME

ABSTRACT OF THE DISCLOSURE

A plasma addressed liquid crystal display device having a flat panel structure where a liquid crystal cell is superposed on a plasma cell. The liquid crystal cell comprises a front substrate with data electrodes arranged in columns, an intermediate substrate bonded to the substrate via a predetermined gap, and a liquid crystal in the gap. The plasma cell comprises a rear substrate joined to the intermediate substrate via a predetermined space, and discharge channels arranged in rows. The intermediate substrate is dimensionally set to include an overlapping planar region of the front and rear substrates which are different in shape. Spacer particles and plurality of barrier ribs for prescribing the gap and space dimensions with the respective cells are existent between the intermediate and respective substrates over the planar region. The gap in the liquid crystal cell is dimensionally uniform, and breakage of the intermediate substrate is preventable.

Figure 2