TFT/LCD ACTIVE DATA LINE REPAIR

ABSTRACT

A matrix addressed display system designed so as to enable data line repair by electronic mechanisms which is efficient and low in cost and thus increases yield. Such active data line repair utilises additional data driver outputs, a defect map memory in the TFT/LCD module (34) and modification of the data stream to the data drivers (36) by additional circuits between the display and the display adapter. A bus configuration on the display substrate is utilized which combines repair flexibility, low parasitic capacitance, and the ability to easily make the necessary interconnections. The number of interconnections is kept to a minimum, the connections are reliable, and the connections may be made with conventional wire bond or laser bond technology, or disk bond technology.
Fig. 2.