

Bio-Sensing and Monitor System Design with Micro Array Probes and  
Amplifier on an Active RFID Tag

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Abstract

This research provides a micro array bio-probe device, integrated with Thin-Film-Transistor (TFT) amplifier formed of bottom-gate MOS (Metal-Oxide Semiconductor) type thin film transistors, on an active RFID tag to improve the signal-to-noise ratio and impedance matching problems. The bio-probe device can be disposed to conform to the profile of a living body's portion so as to improve the electrical contact property.

Keyword : bio-sensing probe, thin film transistor amplifier, signal-to-noise ratio, active RFID tag