

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

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Abstract

Abstract—This research provides a micro array bio-probe device, integrated with Thin-Film-Transistor (TFT) amplifier formed of top-gate MOS (Metal-Oxide Semiconductor) transistors on an active RFID tag, to improve the signal-to-noise (S/N) 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 : RFID