CMOS Current-Mode Selectable S-Shape Correction Circuit 林國珍,鄭智仁,邱順風,陳竹一 Microelectronics Engineering Engineering kuojenlin@chu.edu.tw

Abstract

This paper presents a CMOS current-mode S-shape correction circuit. The S-shape correction

function is proposed to suit for panel-to-panel LCD displays by selecting a fractional value. Simulated results are

at 1.8V supply voltage for 0.35 $\mu\,\mathrm{m}$ CMOS process. Image quality improvement due to S-shape correction is

observed. The -3dB bandwidth are about 50 MHz for the proposed circuit.

Keyword: LCD, S-shape curve, gamma correction, current-mode circuit, Taylor series