



# FSA806 — USB2.0 High-Speed (480Mbps), UART, and Audio Switch with Negative Signal Capability

## Features

- 3:1 Switch Handles:
  - Audio Headsets
  - UART
  - Up to Two High- and Low-Speed USB Data
- Negative-Swing-Capable Audio Channel
- Built-in Termination Resistors for Audio Pop Reduction
- Simple Switch Control Using Two Select Pins

## Description

The FSA806 is a 3:1 USB accessory switch that enables USB data, stereo and mono audio, and UART data to share a common connector port. Two ports are designed for high-speed USB 2.0 signaling, while also capable of full speed USB and UART communication. The architecture is designed to allow audio signals to swing below ground so a common USB and headphone jack can be used for personal media players and portable peripheral devices.

The FSA806 meets both USB Rev. 2.0 and micro-USB specifications.

## Applications

- Cell Phones, MP3 Players, PDAs

## Ordering Information

Part Number	Operating Temperature Range	Top Mark	Package
FSA806UMX	-40 to +85°C	KN	12-Lead Quad, 1.8 x 1.8mm Ultrathin Molded Leadless Package (UMLP)

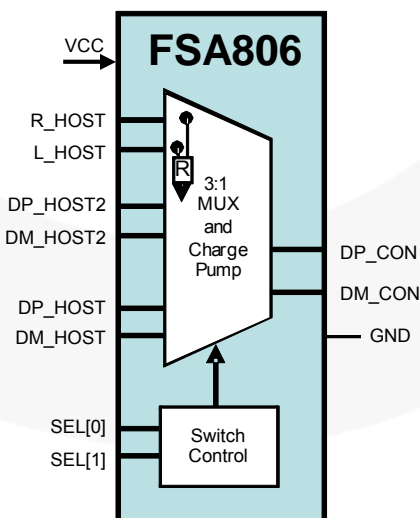
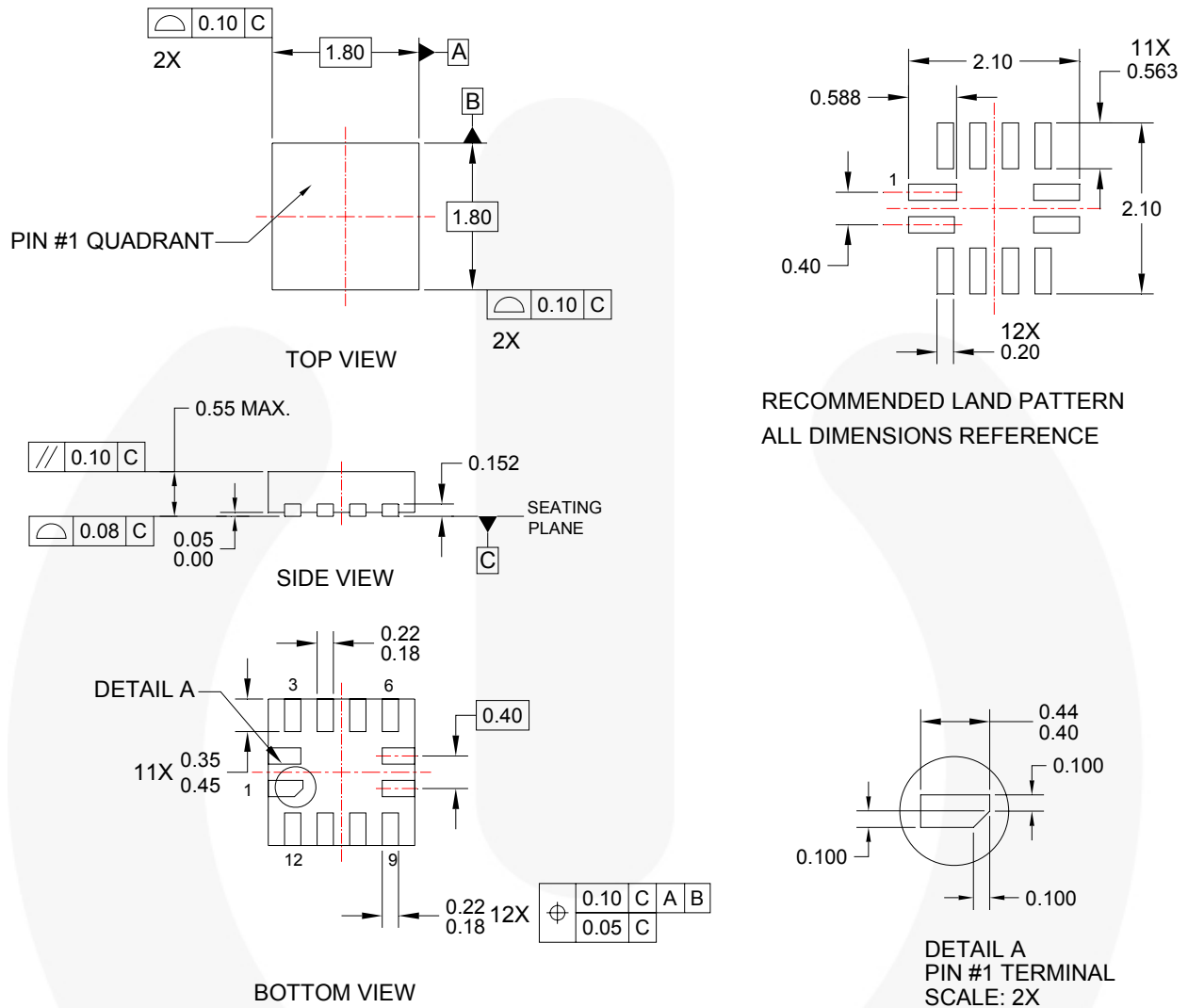


Figure 1. Functional Block Diagram

## Physical Dimensions



### NOTES:

- A. DIMENSIONS ARE IN MILLIMETERS.
- B. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 1994
- C. LANDPATTERN IS A MINIMAL TOE DESIGN
- D. DRAWING FILENAME: UMLP12Arev3

**Figure 15. 12-Lead, Ultrathin Molded Leadless Package (UMLP)**

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