

LIMITED DATASHEET

Email <u>Analog.Switch@fairchildsemi.com</u> to request the full datasheet.

March 2012

FSA8009 Audio Jack Send / End Detection with MIC / Video Switch

Features

	Accessory Plug-In	
Detection	3- or 4-Pole Audio Jack	
	Send / End Key Pressed	
Switch Type	Microphone & Video	
V_{DD}	2.5 to 4.3V	
THD (MIC)	0.01% Typical	
ESD (Air Gap)	16kV	
Operating Temperature	-40°C to 85°C	
Package	10-Lead UMLP	
	1.4x1.8x0.5mm, 0.4mm Pitch	
Top Mark	KP	
Ordering Information	FSA8009UMX	

Applications

- 3.5mm and 2.5mm Audio Jacks
- Cellular Phones, Smartphones
- MP3 and PMP

Description

The FSA8009 is an audio jack microphone / video switch for 3- or 4-pole accessories with send / end (S/E) detection. In addition to detection, the FSA8009 features an integrated microphone / video switch that allows the processor to configure the audio jack. The architecture is designed to allow common third-party headphones to be used for listening to music from mobile handsets, personal media players, and portable peripheral devices.

- Determines When Send / End Button Key is Pressed
- Integrates a MIC / Video Switch for 4-Pole Configuration
- Reduces Pop / Click Caused by Microphone Bias

Related Resources

- For samples and questions, please contact: Analog.Switch@fairchildsemi.com.
- FSA8009 Demonstration Board

Typical Application

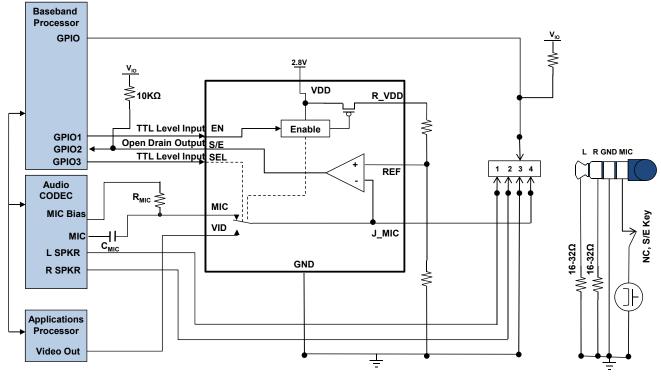


Figure 1. Mobile Phone Example

Physical Dimensions

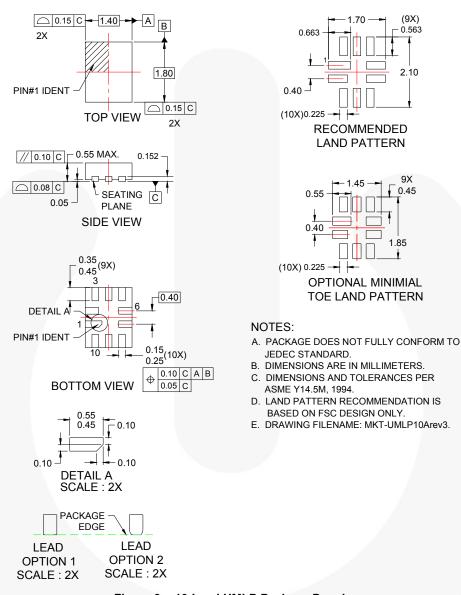


Figure 3. 10-Lead UMLP Package Drawing

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Ordering Information

Part Number	Operating Temperature Range	Top Mark	Package
FSA8009UMX	-40 to +85°C	ı KP	10-Lead 1.4 x 1.8 x 0.55mm, 0.4mm Pitch, Ultrathin Molded Leadless Package (UMLP)





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Definition of Terms			
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