

Product Overview

FSA2275: DPDT (0.5Ω) HiFi Audio Switch with Negative Swing

For complete documentation, see the data sheet.

The FSA2275 is a high-performance, Double-Pole Double-Throw (DPDT) analog switch with negative swing audio capability. The FSA2275 features ultra-low audio RON of 0.5Ω (typical) at 2.5 V VCC. The FSA2275 operates over a VCC range of 2.5 V to 5.5 V, is fabricated with sub-micron CMOS technology to achieve fast switching speeds, and is designed for break-before-make operation. To minimize pop and click during operation, the turn on ramp time is selectable using an external capacitor (C_EXT). The FSA2275 features THD+N specifications that target a Hi-Fidelity audio quality into both 32 Ω headphones and line out type loads (>600 Ω).

Features

- VDD Operating Range: 2.5 to 5.5 V
- External Capacitor Connection for Pop and Click noise suppression
- Power-Off Protection on Common Ports
- RON = 0.5 Ω (Typ.) at 2.5 V VDD
- THD+N = -105 dB; 2 VRMS, 20 kΩ Load; f=1 kHz
- XTALK = -134 dB at 1 VRMS, 50 Ω Load; f = 1 kHz
- Off Isolation = -103 dB at 1 VRMS, 50 Ω Load; f = 1 kHz
- 12-Lead UMLP 1.8 mm x 1.8 mm

Applications

- This product is general usage and suitable for many different applications.

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Channels	Number of Switches	Configuration	I _{cc} Max (μA)	r _{on} Max (Ω)	V _{CC} Min (V)	V _{CC} Max (V)	Package Type
FSA2275UMX	0.2317	Pb-free Halide free non AEC-Q and PPAP	Active	2	4	DPDT	-	1	2.5	5.5	UQFN-12

For more information please contact your local sales support at www.onsemi.com.

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