

General-Purpose 6ch Electronic Volume with Built-in Advanced Switch

BD3461FS

General Description

BD3461FS is a 6ch electronic volume which has the best audio efficiency in the industry. It has an external sound mixing function (with volume) in the favorite channel for mixing of portable audio and car navigation's guide sound. Also, BD3461FS has a volume switching shock sound prevention technique called "Advanced Switch," supporting the construction of high quality car audio space by simple control.

Features

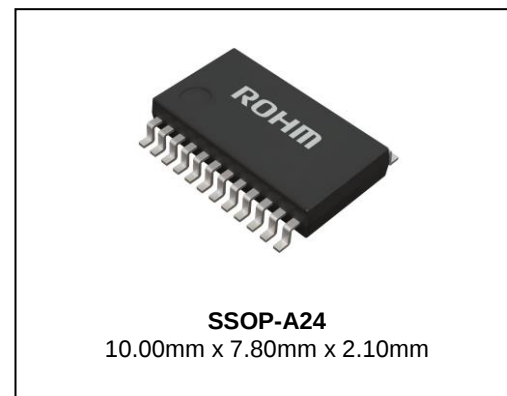
- Reduce switching noise of volume by using Advanced Switch circuit.
- Mixing for external sound monaural 3ch. It is possible that is mixed to front/Rear/Sub output Lch/Rch independently.
- Built-in 3ch ATT for external sound mixing that can be controlled independently.
- Built-in buffered ground isolation amplifier inputs, ideal for external input.
- Energy-saving design resulting in low-current consumption by utilizing the Bi-CMOS process. It has the advantage in quality over scaling down the power heat control of internal regulators.
- Arranges all I/O terminals together for easier PCB layout and smaller PCB area.
- I²C BUS can be controlled by 3.3V / 5V.

Key Specifications

- Power Supply Voltage Range: 7.0V to 9.5V
- Circuit Current (no signal): 25mA(Typ)
- Total Harmonic Distortion: 0.0004% (Typ)
- Maximum Input Voltage: 2.35Vrms (Typ)
- Cross-talk between Selectors: -105dB (Typ)
- Volume Control Range: +23dB to -79dB
- Output Noise Voltage: 1.9μVrms(Typ)
- Residual Output Noise Voltage: 1.6μVrms (Typ)
- Operating Temperature Range: -40°C to +85°C

Package

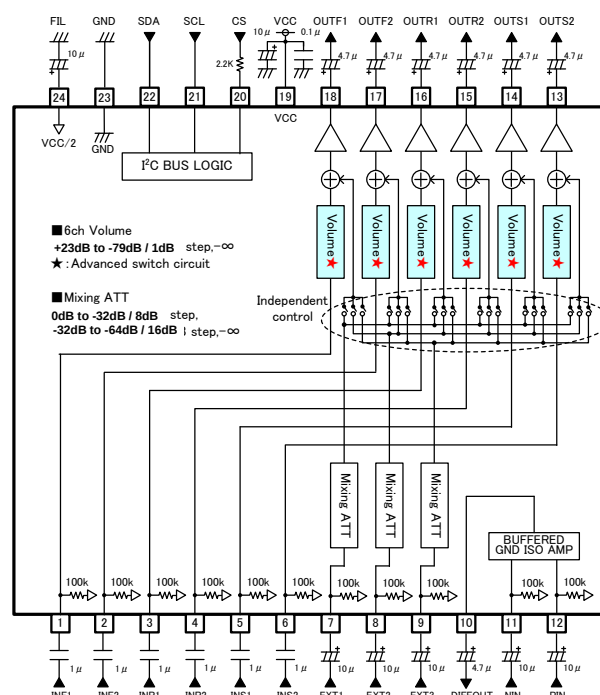
W(Typ) x D(Typ) x H(Max)



Applications

It is optimal for car audio. It can also be used for car navigation, audio equipment of mini Compo, micro Compo, DVD, TV, etc.

Typical Application Circuit


 Unit
 R : [Ω]
 C : [F]