MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
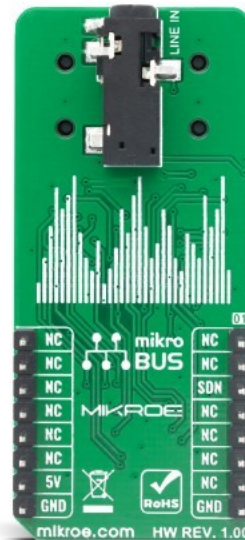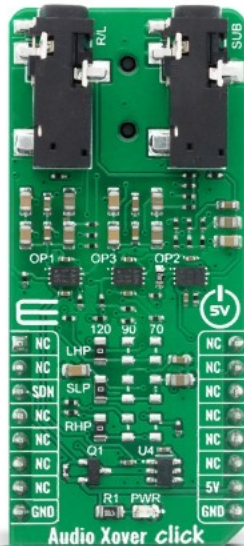www.mikroe.com

Audio Xover Click

PID: MIKROE-4104

Audio Xover Click is an analog active crossover solution for two-way loudspeakers. The primary purpose of the crossover circuit in a loudspeaker is to split an incoming audio signal into frequency bands that are passed to the speaker or "driver" best suited. Audio Xover Click is based on Microchip's MCP6H012 operational amplifier with rail-to-rail output operation, connected in configuration for 2nd order Butterworth filter for both low pass and high pass filters. With a frequency response independent of the dynamic changes in a driver's electrical characteristics and individual channel cutoff frequency selection it's great solution for crossover.

Audio Xover Click board™ is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ socket.

Specifications

Type	Signal Processing
Applications	Audio crossover
On-board modules	MCP6H012
Key Features	A frequency response independent of the dynamic changes in a driver's electrical characteristics, power amplifiers are directly connected to the speaker drivers, individual channel cutoff frequency selection...
Interface	GPIO
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

Audio Xover click example on Libstock

Audio Xover click 2D and 3D files

MCP6H01 datasheet

Audio Xover click schematic