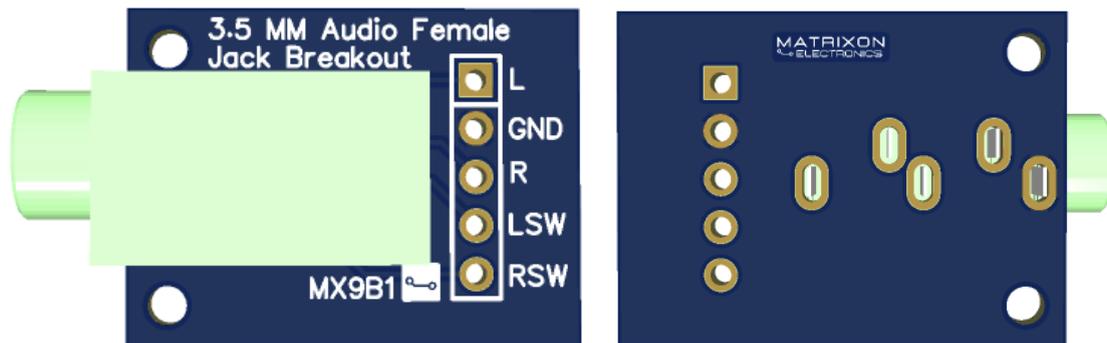


# 3.5 MM Audio Female Jack Breakout Module

MX9B1

Product Datasheet

A compact 3.5 mm audio female jack breakout module that exposes Left, Right, Ground, and switch contacts via standard 2.54 mm headers for easy prototyping and embedded audio applications.



**Version:** Rev 1.0

**Author:** Madhesh Ram Kishore Kumar

## Overview

The [MX9B1 - 3.5 MM Audio Female Jack Breakout Module](#) provides a simple and reliable way to connect 3.5 mm audio plugs to electronic projects. The module exposes Left, Right, Ground, and switch contacts via standard 2.54 mm header pins, making it ideal for breadboard prototyping, audio experimentation, and embedded audio applications.

## Key Features

- Standard 3.5 mm female audio jack breakout
- Breaks out Left (L), Right (R), and Ground (GND) audio signals
- Includes jack switch pins (LSW, RSW) for plug detection or signal routing
- Clearly labeled silkscreen for easy wiring
- Standard 2.54 mm pin header footprint
- Compact, breadboard-friendly PCB design

## Applications

- Audio input/output interfacing for microcontroller projects
- DIY audio amplifiers and mixers
- Headphone and speaker breakout testing
- Audio signal monitoring and routing
- Plug-in detection for embedded systems
- Rapid prototyping of audio circuits
- Amplifier Kits

## Purchase Link

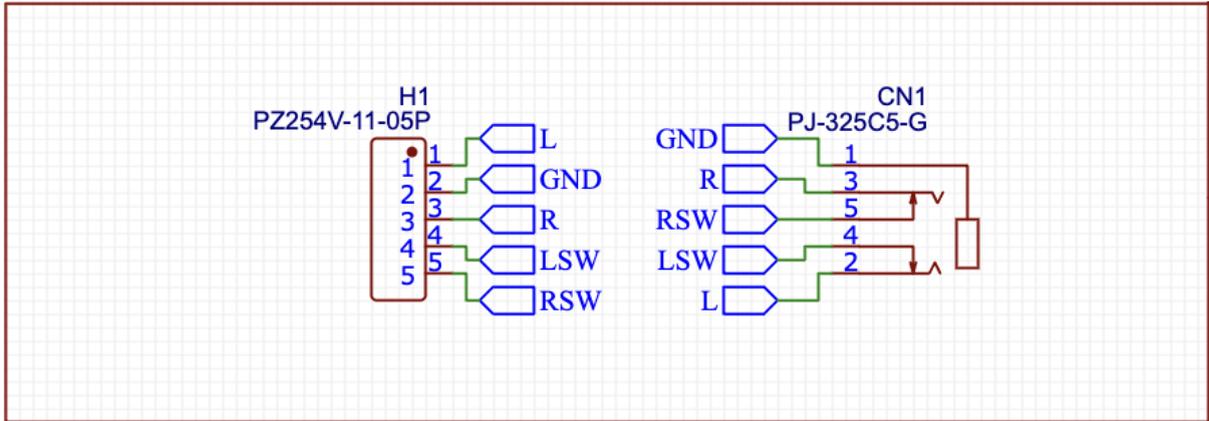
Download Gerber files here: [MX9B1 - 3.5 MM Audio Female Jack Breakout Module](#)

## Pinout Description

Pin	Label	Function
1	L	Left channel audio signal
2	GND	Ground reference
3	R	Right channel audio signal
4	LSW	Left channel switch contact (connected/disconnected on plug insertion)
5	RSW	Right channel switch contact (connected/disconnected on plug insertion)

**Note:** LSW and RSW can be used for jack-insert detection or automatic signal switching applications.

# Schematic Diagram



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TITLE: <b>3.5 MM Audio Female Jack Breakout Module</b>		REV: 1.0
	Company: <b>Matrixon Electronics</b>	Sheet: 1/1
	Date: <b>2026-01-06</b> Drawn By: <b>Madhesh Ram</b>	

# PCB Layout & Dimensions

Parameter	Value
Board Size	24 mm × 18 mm
Layers	2
Components Placement	Top layer (Single side)
Pin Pitch	2.54 mm
Audio Connector	3.5 mm Female Jack

# Revision History

Date	Version	Modify Content
03/02/2026	Rev 1.0	New