

## Microphone coupon board based on the MP23DB02MM digital MEMS microphone



### Features

- 4 x MP23DB02MM bottom port digital MEMS microphones
- Multi performance mode
- Vsupply from 1.6 to 3.6 V
- 122 dB SPL acoustic overload point
- PDM single-bit output
- 64 dB of SNR in low power mode
- Sensitivity -26 dBFS  $\pm$ 1 dB (in low power and performance mode)
- RoHS and WEEE compliant

### Description

The **STEVAL-MIC005V1** is a daughterboard containing 4 **MP23DB02MM** digital MEMS microphones.

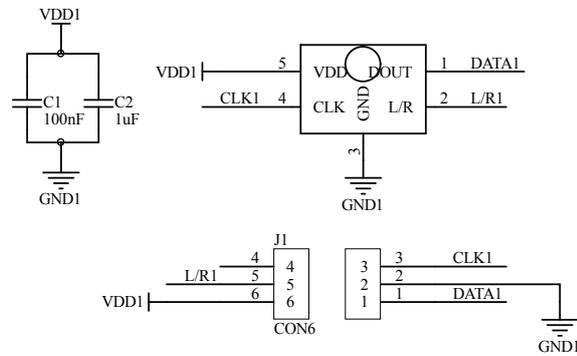
The **STEVAL-MIC005V1** can be used with **X-NUCLEO-CCA02M2**.

The coupon concept allows easy performance testing of ST MEMS microphones. It is possible to detach the single PCBs hosting each microphone.

Summary table	
Microphone coupon board based on the MP23DB02MM digital MEMS microphone	<b>STEVAL-MIC005V1</b>
MEMS Multi performance mode digital microphone with same sensitivity value for each operative mode	<b>MP23DB02MM</b>
Digital MEMS microphone expansion board based on MP34DT06J for STM32 Nucleo	<b>X-NUCLEO-CCA02M2</b>

# 1 Schematic diagram

Figure 1. STEVAL-MIC005V1 board schematic



## Revision history

**Table 1. Document revision history**

Date	Version	Changes
09-Mar-2020	1	Initial release.

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