STEVAL-MIC006V1

Data brief

Microphone coupon board based on the MP23DB01HP digital MEMS microphone

Features

- 4 x MP23DB01HP bottom port digital MEMS microphones
- Multi performance mode (Low Power, High Performance)
- PDM single-bit output
- Vsupply from 1.6 to 3.6 V
- 135 dBSPL Acoustic Overload Point
- 65 dB of SNR in Performance mode
- Sensitivity -41 dBFs ±1 dB (in Performance mode) and -24 dBFs ±1 dB (in Low Power mode)
- RoHS and WEEE compliant

Description

The STEVAL-MIC006V1 is a daughterboard containing 4 MP23DB01HP digital MEMS microphones.

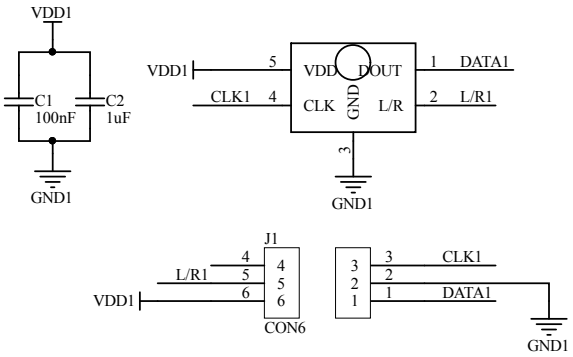
The STEVAL-MIC006V1 can be used with X-NUCLEO-CCA02M2.

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 MP23DB01HP digital MEMS microphone	STEVAL-MIC006V1
MEMS Multi performance mode digital microphone with same sensitivity value for each operative mode	MP23DB01HP
Digital MEMS microphone expansion board based on MP34DT06J for STM32 Nucleo	X-NUCLEO-CCA02M2

1 Schematic diagram

Figure 1. **STEVAL-MIC006V1 board schematic**



Revision history

Table 1. **Document revision history**

Date	Version	Changes
10-Mar-2020	1	Initial release.
08-Jun-2020	2	Updated features.

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