

Microphone coupon board based on the MP34DT06J digital MEMS



Features

- 4 x MP34DT06J top port digital MEMS microphones
- Daughterboard to be used with X-NUCLEO-CCA02M1
- Vsupply from 1.6 to 3.6 V
- 122.5 dB SPL acoustic overload point
- Omnidirectional sensitivity
- PDM single-bit output
- 64 dB of SNR
- Sensitivity -26 dBFS ± 1 dB
- RoHS compliant

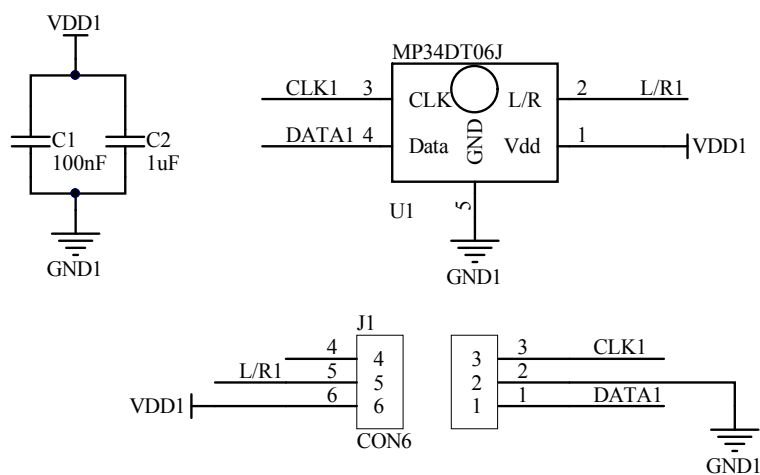
Description

The STEVAL-MIC002V1 daughterboard is designed to be used in conjunction with the X-NUCLEO-CCA02M1 expansion board; it is able to export the four additional PDMs for any user application requirement (NBW algorithm detection).

Summary table	
Microphone coupon board based on the MP34DT06J digital	STEVAL-MIC002V1
Digital MEMS microphones expansion board based on MP34DT01-M for STM32 Nucleo	X-NUCLEO-CCA02M1
Ultra-compact, low-power, omnidirectional, digital MEMS microphone built with a capacitive sensing element and an IC interface	MP34DT06J

1 Schematic diagram

Figure 1. STEVAL-MIC002V1 circuit schematic



Revision history

Table 1. Document revision history

Date	Version	Changes
06-Jun-2018	1	Initial release.

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