

Microphone coupon board based on the MP34DT05 digital MEMS microphone

Data brief



Features

- 4xMP34DT05 top port digital MEMS microphones
- Daughterboard to be used with STEVAL-MKI126V3 or 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
- RoHS compliant

Description

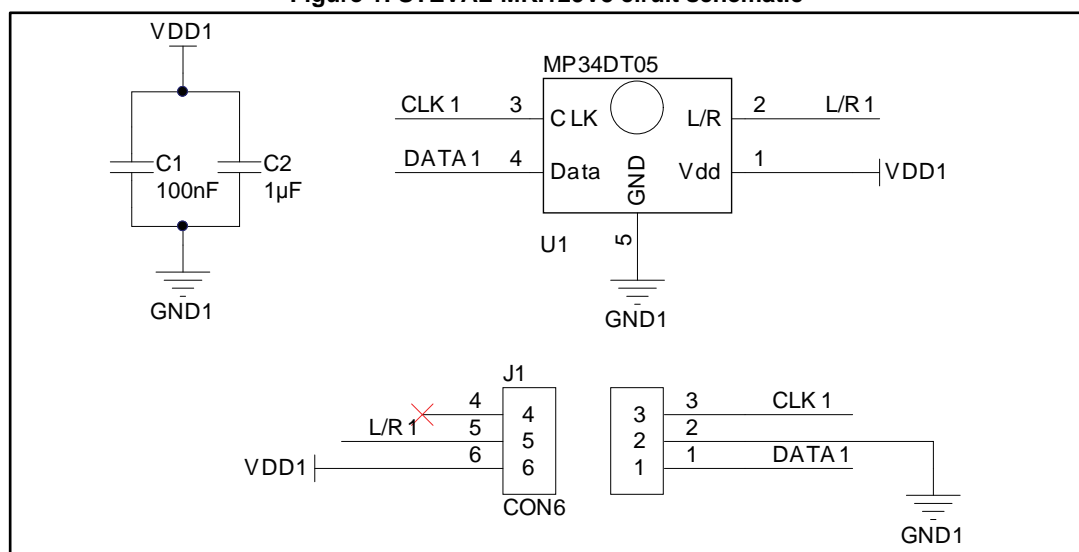
The STEVAL-MKI129V5 daughterboard is designed to be used in conjunction with the STEVAL-MKI126V3 (STSmartVoice) or X-NUCLEO-CCA02M1, it contains 4 MP34DT05 digital MEMS microphones.

The coupon concept simplifies performance testing of the ST MEMS microphones. When attached to the X-NUCLEO-CCA02M1 board, it can export four additional PDMs for user application requirements (NBW algorithm detection).

When inserted in the STSmartVoice board, you can disconnect the single PCBs hosting each microphone.

1 Schematic diagram

Figure 1: STEVAL-MKI129V5 circuit schematic



2 Revision history

Table 1: Document revision history

Date	Version	Changes
15-Feb-2017	1	Initial release.

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