

Microphone coupon board based on the IMP34DT05 digital MEMS



Features

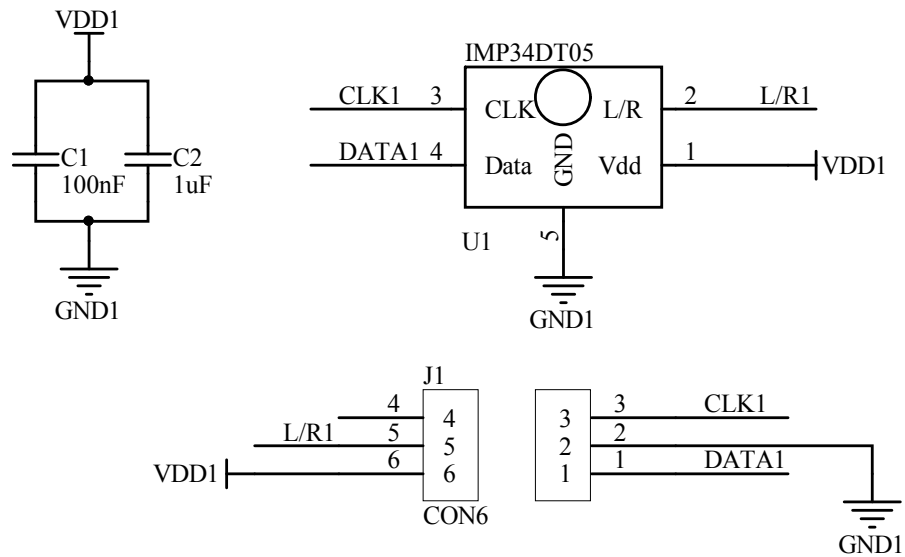
- 4 x IMP34DT05 top port digital MEMS microphones
- Daughterboard to be used with X-NUCLEO-CCA02M1
- Vsupply from 1.6 to 3.6 V
- 122.5 dB SPL acoustic overload point
- Omnidirectional sensitivity
- PDM single-bit output
- 64 dB of SNR
- Sensitivity -26 dBFS \pm 3 dB
- RoHS compliant

Description

The STEVAL-MIC003V1 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 IMP34DT05 digital MEMS	STEVAL-MIC003V1
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 that is offered with a 10 years longevity commitment	IMP34DT05

1 Schematic diagram

Figure 1. STEVAL-MIC003V1 circuit schematic


Revision history

Table 1. Document revision history

Date	Version	Changes
15-May-2018	1	Initial release.