

Microphone coupon board based on the MP23AB01DH fully differential analog MEMS microphone

Data brief



Description

The STEVAL-MKI139V5 daughterboard contains four MP23AB01DH analog MEMS microphones.

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

Features

- 4 x MP23AB01DH bottom port analog MEMS microphones
- Vsupply from 2.1 to 3.6 V
- 120 dBSPL acoustic overload point
- Omnidirectional sensitivity
- Frequency range 100 Hz - 10 kHz
- 64.5 dB of SNR
- Sensitivity -38 dBFV \pm 1 dBV
- THD < 0.5% @ 94 dBSPL, 1 kHz
- THD < 10% @ 130 dBSPL, 1 kHz
- RoHS compliant

1 Schematic diagrams

Figure 1: STEVAL-MKI139V5 coupon circuit schematic

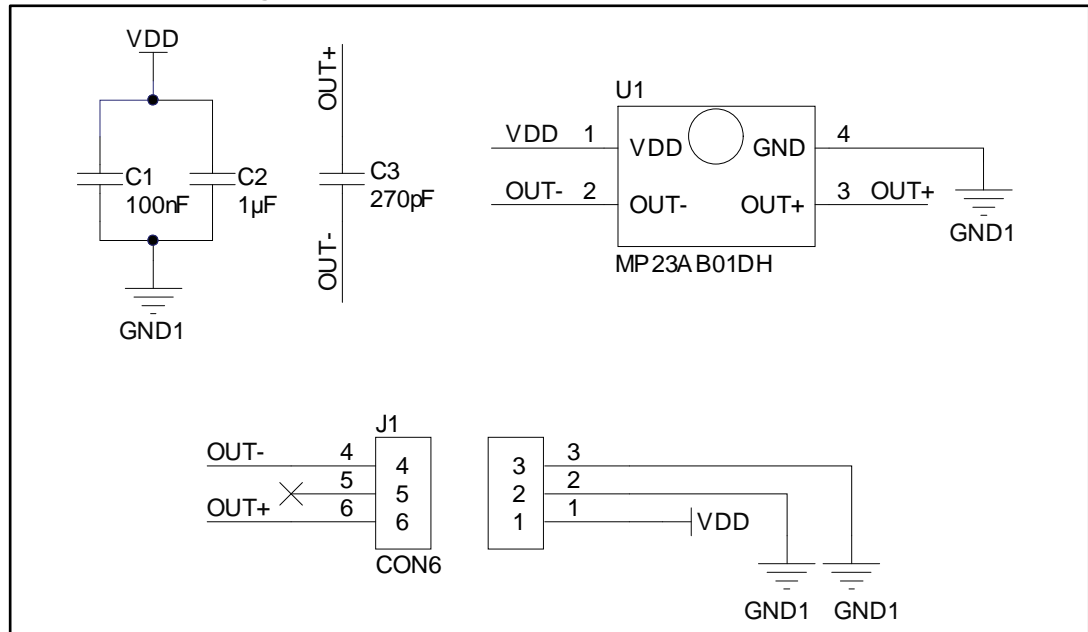
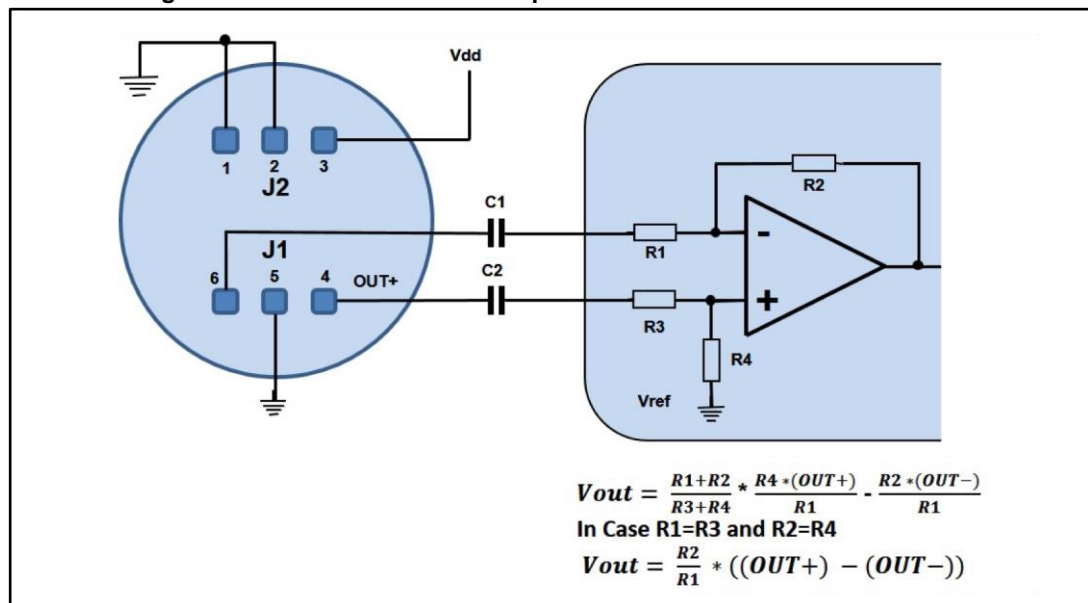


Figure 2: STEVAL-MKI139V5 example of external electrical connections



2 Revision history

Table 1: Document revision history

Date	Version	Changes
12-May-2017	1	Initial release.

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