STEVAL-MKI139V3

Microphone coupon board based on the MP23AB02B analog MEMS microphone

Description

The STEVAL-MKI139V3 is a daughterboard containing 4 MP23AB02B analog MEMS microphones. The coupon concept allows easy performance testing of ST MEMS microphones. It is possible to detach the single PCBs hosting each microphone.

Features

- 4 x MP23AB02B bottom port digital MEMS microphones
- V supply from 1.6 to 3.6 V
- 120 dBSPL acoustic overload point
- Omnidirectional sensitivity
- Frequency range: 100 Hz - 10 kHz
- 64 dB of SNR
- THD < 0.5% @ 94 dBSPL, 1 kHz
- Sensitivity: -38 dBV
- RoHS compliant

1 Schematic diagrams

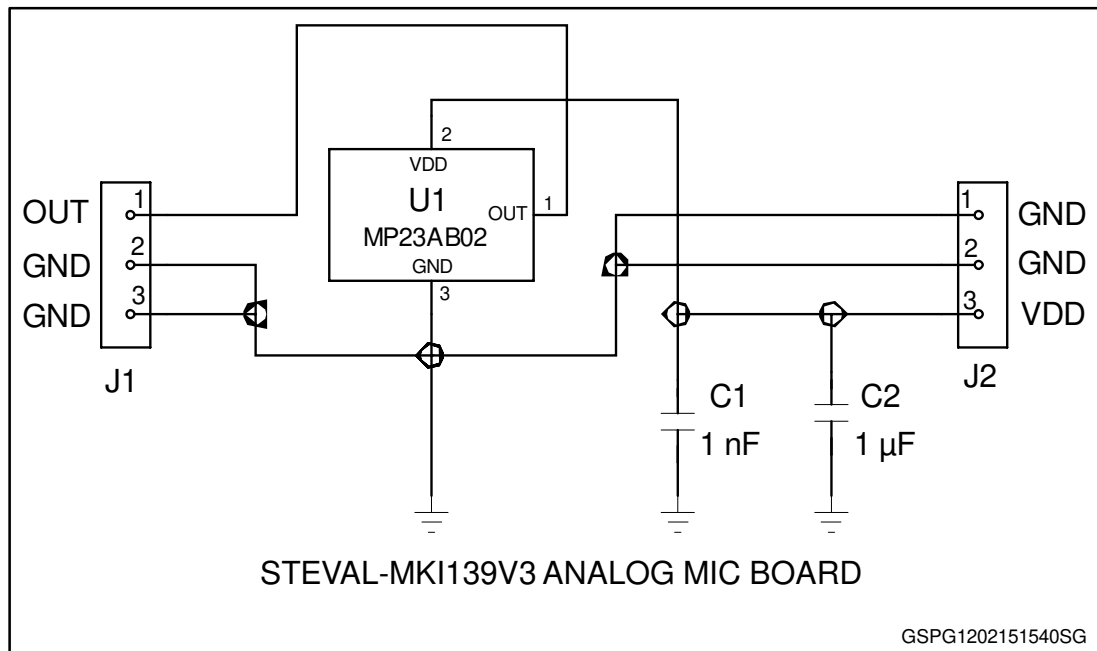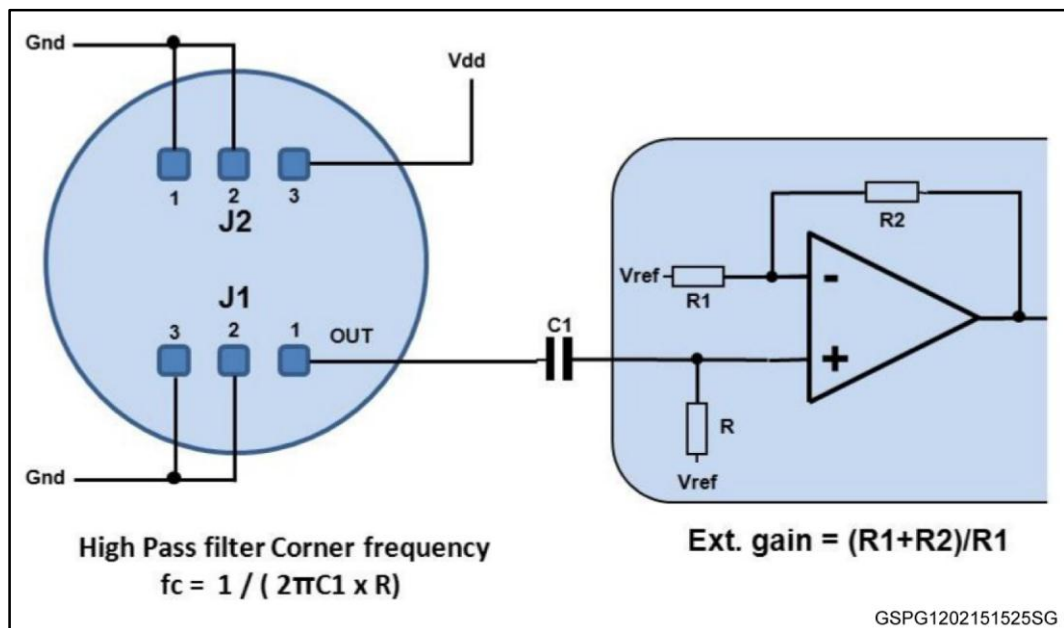**Figure 1: STEVAL-MKI139V3 coupon schematic diagram**

Figure 2: STEVAL-MKI139V3 example of external electrical connections

2 Revision history

Table 1: Document revision history

Date	Rev	Changes
24-Feb-2015	1	First release.

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