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

**Features**

- 4 x MP23AB01DH bottom port analog MEMS microphones
- Vsupply from 2.3 to 3.6 V
- 135 dBSPL acoustic overload point
- Omnidirectional sensitivity
- Frequency range 100 Hz - 10 kHz
- 65 dB of SNR
- Sensitivity -38 dBFV ± 1 dBV
- THD < 0.2% @ 94 dBSPL, 1 kHz
- THD < 5% @ 130 dBSPL, 1 kHz
- RoHS compliant

**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.

**Product summary**

| High-performance MEMS microphone, fully differential analog bottom-port, omnidirectional, high SNR, compact and low-power MEMS audio sensor | MP23AB01DH |
1 Schematic diagrams

Figure 1. STEVAL-MKI139V5 coupon circuit schematic

Figure 2. STEVAL-MKI139V5 example of external electrical connections
## Revision history

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<th>Date</th>
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<tr>
<td>12-May-2017</td>
<td>1</td>
<td>Initial release.</td>
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<tr>
<td>07-May-2018</td>
<td>2</td>
<td>Added logo in cover page, updated Section ● Features, added Section ● Product summary table</td>
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