Microphone coupon board based on the MP23ABS1 analog MEMS

Features

• 4 x MP23ABS1 bottom port analog MEMS microphones
• Vsupply from 1.52 to 3.6 V
• 130 dBSPL acoustic overload point
• Omnidirectional sensitivity
• Current consumption: 120 µA
• 64 dB of SNR
• Sensitivity -38 dBV ±1 dB
• WEEE compliant
• RoHS compliant

Description

The STEVAL-MIC004V1 is a daughterboard containing 4 MP23ABS1 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.

Summary table

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<tr>
<th>Microphone coupon board based on the MP23ABS1 analog MEMS</th>
<th>STEVAL-MIC004V1</th>
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<tbody>
<tr>
<td>High performance MEMS audio sensor single ended analog bottom-port microphone</td>
<td>MP23ABS1</td>
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1 Schematic

Figure 1. STEVAL-MIC004V1 board schematic

Figure 2. STEVAL-MIC004V1_example of external electrical connections
Revision history

Table 1. Document revision history

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
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<tr>
<td>12-Nov-2018</td>
<td>1</td>
<td>Initial release.</td>
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