

▶ strictly confidential

Attracting Tomorrow



MEMS Microphone MMICT4078-00-908

Product Brief and EVAL PCB Information

TDK Electronics AG
MEMS Business Group • Microphone BU
Munich, Germany
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MMICT4078-00-908

Wide Dynamic Range, High SNR, Small Package Analog Microphone



In Production

Specifications

- | | |
|-------------------------------------|-------------------------------------|
| ▪ Port Location: | Bottom |
| ▪ Output: | Analog |
| ▪ SNR: | 66dB (A) in high performance mode |
| ▪ Frequency Response: | 80 Hz to 20 kHz |
| ▪ Acoustic Overload Point (dB SPL): | 136 dB SPL in high performance mode |
| ▪ 1% THD point (dB SPL) | 130 dB SPL in high performance mode |
| ▪ Sensitivity (dB FS): | -38 ±1 dB |
| ▪ Package Size (mm) | 3.35 x 2.5 x 0.98mm |
| ▪ Voltage range | 1.52 to 3.6V |
| ▪ Polarity | Positive |

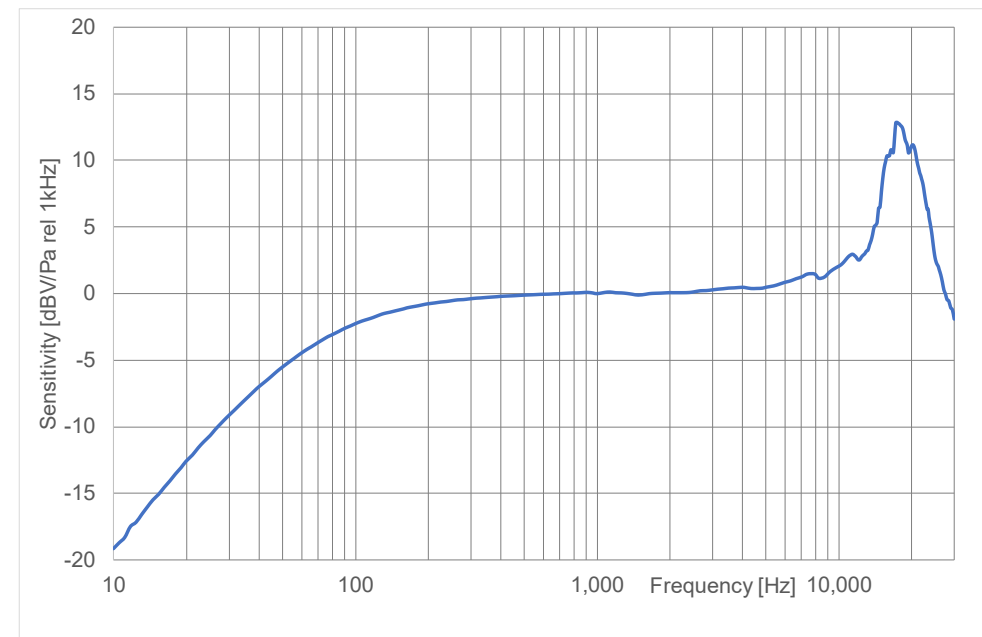
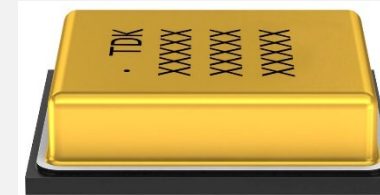
Datasheet: Contact your sales representative for preliminary datasheet

Applications

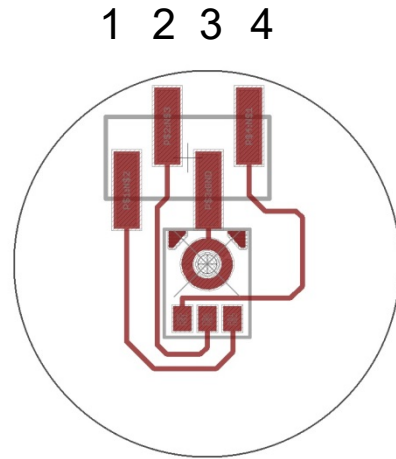
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|------------------------|-------------------|
| • Wearable Devices | • Mobile Phones |
| • IoT sensors | • Headsets |
| • Conferencing Systems | • Remote Controls |

Solution Benefits

- Provides High performance in a small, industry standard size package
- Low power (85µA) and high performance (66dB SNR) modes
- Differential interface improves EMI susceptibility
- Ideal for wearables and mobile applications

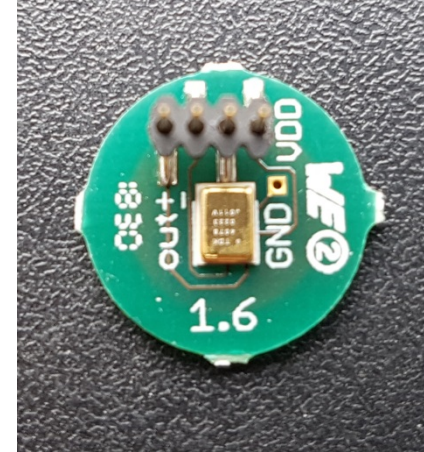


Evaluation PCB : EV_T4078



board layout (top metal layer)

Pin#	Pin name
1	OUT+
2	OUT-
3	GND
4	VDD



T4078 PCB top view

This is a round PCB to measure the T4078 microphone in differential mode. The microphone is routed to a 4-pin plug to supply VDD (pin 4) and to measured the output signal (pin 1 and 2).

The PCB has a diameter of 12mm and a thickness of 1mm.



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