



Product Description

This is a simple evaluation board that allows quick evaluation of the performance of the 3SM222KMB1HA-P bottom port digital output omnidirectional microphones. The evaluation board has a 5-pin for access to all microphone pins.

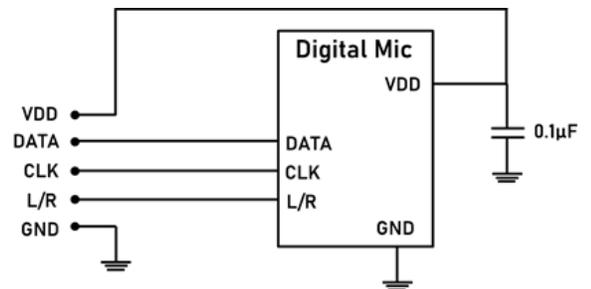
- The evaluation board is equipped with a digital PDM output microphone and a 0.1μF supply bypass capacitor.
- Bottom Port PDM microphone has already mounted to evaluation board.

Microphone Specifications

Typical test conditions are TA = 23 °C, VDD = 1.8V and R.H. = 50 % measured in a pressure chamber test setup. All voltages refer to GND node

Microphone Parameters	Typical Specification
Microphone Part Number	3SM222KMB1HA-P
Supply Voltage	1.6 to 3.6V
Current Consumption	550μA(Vdd=1.8V) ; 850μA(Vdd=3.6V)
Interface	PDM
Sensitivity	-26 dBFS (1KHz, 94dBSPL)
Signal to Noise Ratio	64 dBA
Low Frequency Roll-off	35Hz (-3dB relative to 1KHz)
Acoustic Overload Point	120 dBSPL (10% THD@1KHz)
Clock Frequency	1.0 to 4.8 MHz
Package Dimensions	3.50mm x 2.65mm x 0.98mm
Port Location	Bottom

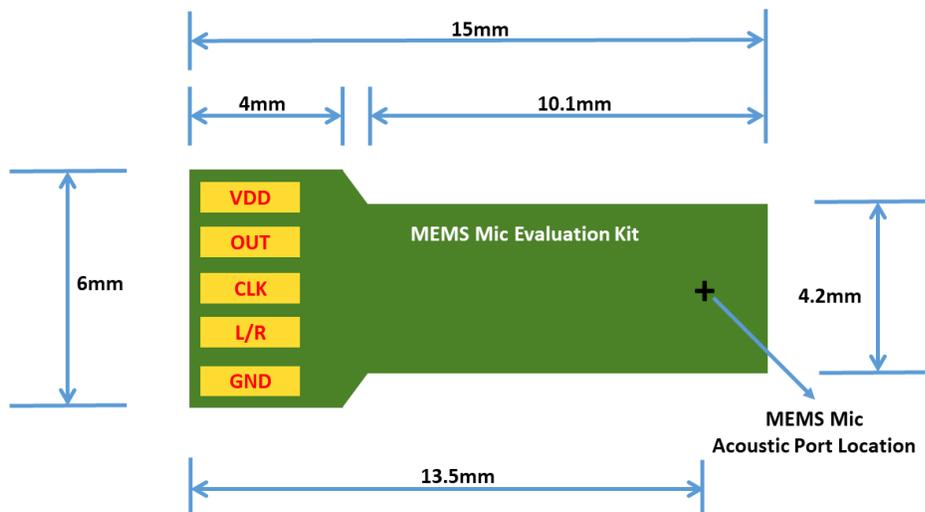
Evaluation Kit Schematic



Evaluation Kit BOM

- 3SM222KMB1HA-P, Bottom port digital microphone
- BYPASS CAPACITOR, 0.1uF, 0.1μF ±10% 16V, X5R, 0402
- EVK222KMB1HA-P CIRCUIT PCB

Evaluation Kit Dimensions



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For inquiries, or further information on available products with evaluation kit please visit the 3S website On-line Inquiry at <http://www.3system.com.tw>