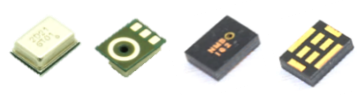


- **MEMS MIC**

- Digital (PDM & I2S) /Analog
- Omni-Mic (Directional Mic under development)
- SNR 71dBA, AOP 136dBSPL



- **ECM MIC**

- Phi 3mm, 4mm, 6mm, 14mm Mic
- Onni-/Uni-/ Bi- Directional Mic
- Customization of Sensitivity & Curve, In-house Manufacturing & Testing



- **MIC Module**

- Wire Type, FPCA/PCBA
- OEM Module (EE, ME...)
- 100% Acoustic Function Test



- **Combo Sensor /Pressure/BCM**

- Bone Conduction Microphone
- Pressure Sensors
- Combo Sensor (Mic + Temperature, Mic + Pressure Sensor)



- **SiP Module**

- BT Audio SiP for TWS/Headset
- Miniaturization (BT SoC, Touch, Flash Integrated)
- Simplified PCBA and System Assembly
- Modular Design: Material Management



Wide Variety of MEMS Mic

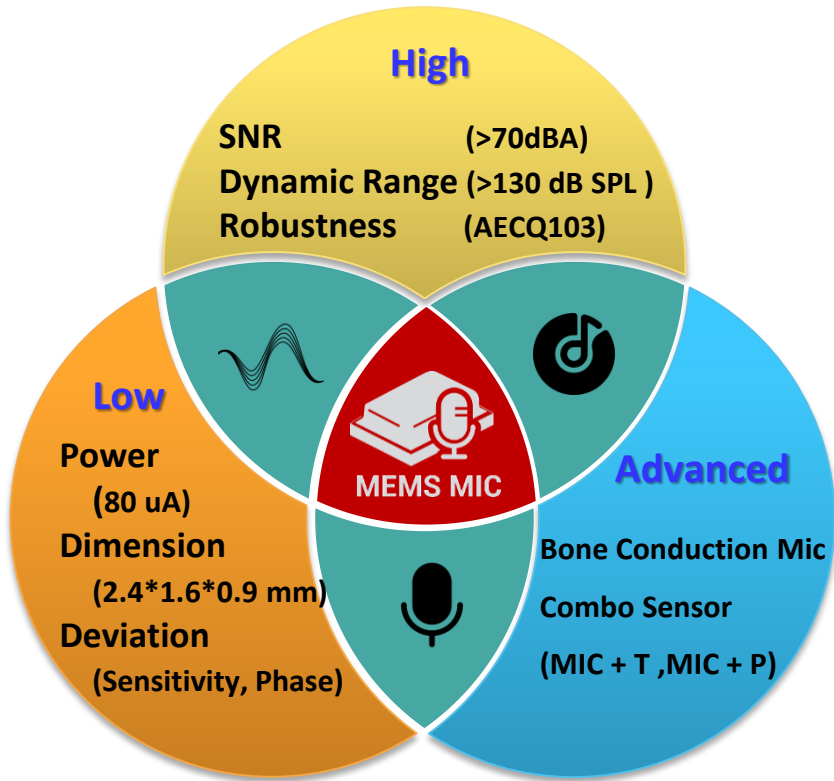


High Dynamic Range MEMS Mic



High SNR MEMS Mic

- Merry MEMS Mic Focus Area






MERRY MEMS Microphone is designed for applications where low self-noise (high SNR), wide dynamic range, low distortions and a high acoustic overload point are required, and we cover analog and digital output and various sizes of MEMS MIC.

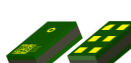


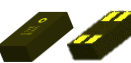


- High Performance

Diagram	MERRY Model No.	Type	Dimensions (mm <sup>3</sup> )	Sensitivity (dBFS)	SNR (dBA)	LFRO (Hz)	AOP (dB SPL)	SPL@1% THD (dB SPL)	Supply Current (μA)
	MMD202-011	Digital Bottom Port	4.00 x 3.00 x 1.25	-37±1	70	25	130	116	960/260
	MMD208-001	Digital Bottom Port	4.00 x 3.00 x 3.50	-34±1	72	<20	126	123	1000/250
	MMA218-001	Analog Bottom Port	4.00 x 3.00 x 1.20	-38 ±1	70	<25	129	110	110
	MMA214-001	Analog Differential output Bottom Port	4.00 x 3.00 x 1.20	-38 ±1	70	<20	136/132	130	160/55
	MMA209-003	Analog Differential output Bottom Port	4.72 x 3.76 x 1.25	-35 ±1	70	<20	133/129	128	170/60

## • Versatile for Most Applications

Diagram	MERRY Model No.	Type	Dimensions (mm <sup>3</sup> )	Sensitivity (dBFS)	SNR (dBA)	LFRO (Hz)	AOP (dB SPL)	SPL@1% THD (dB SPL)	Supply Current (μA)
	MMD201-024			-26 ±1	65	<20	119	-	570/120
	MMD201-025	Digital Bottom Port	3.50 x 2.65 x 0.98	-37 ±1	65	25	130	123	960/260
	MMD201-019			-35 ±1	67	35	130	125	930/250
	MMA206-009	Analog Bottom Port	3.50 x 2.65 x 0.98	-38 ±1	66	<20	134	119	75
	MMA206-019			-38 ±1	70	45	130	117	110
	MMA203-011			-38 ±1	63	<20	131	126	90
	MMA203-007	Analog Bottom Port	2.75 x 1.85 x 0.90	-38 ±1	64.5	<20	133	117	80
	MMA203-017			-38 ±1	66	25	129	115	110

## • Small and Power Saving

Diagram	MERRY Model No.	Type	Dimensions (mm <sup>3</sup> )	Sensitivity (dBFS)	SNR (dBA)	LFRO (Hz)	AOP (dB SPL)	SPL@1% THD (dB SPL)	Supply Current (μA)
	MMD308-001	Digital Top Port	3.50 x 2.00 x 1.00	-26 ±1	65	<20	120	-	480/120
	MMD104-001	Digital Top Port	4.00 x 2.00 x 1.10	-26 ±1	65	<20	120	105	480/120
	MMD204-003	Digital Bottom Port	3.00 x 2.00 x 0.90	-26 ±1	64.5	80	121	108	550/210
	MMA304-001	Analog Top Port	3.42 x 2.00 x 0.93	-36 ±1	64.5	100	122	108	55
	MMA216-001	Analog Bottom Port	2.40 x 1.60 x 0.90	-38 ±1	64	<20	128	110	110
	MMA203-011	Analog Bottom Port	2.75 x 1.85 x 0.90	-38 ±1	63	<20	131	126	90