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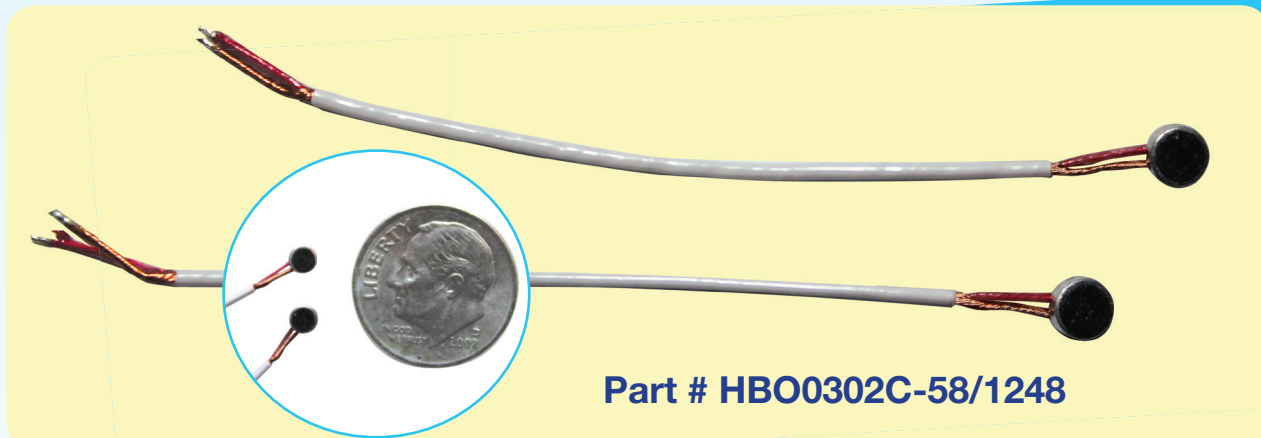
3mm Noise Cancelling Microphone

We are pleased to announce our 3mm diameter Electret Condenser Microphones (ECM), the first to provide full bandwidth, high sensitivity, and high signal to noise ratio all in this small 3mm package.

KEY FEATURES

- ▶ Small 3mm size — 50% smaller than commonly used 4mm
- ▶ Comes available with wires for ease of application, or customizable!

HBO0302C is currently used in the best performance ANC headsets and earphones in the market!



At this size, HBO0302C is also comparable to the smallest MEMS microphone packages in the market.

Compared to MEMS microphones however, HBO0302C provides unique advantages. MEMS microphones are traditionally poor in low frequency noise performance. That's the reason most of the advanced active noise cancelling (ANC) headsets or earphones in the market use ECM's.

ANC headset or earphones are in great demand since they are very effective in cancelling out lower frequency band mechanical noises, which need the noise collecting microphones to be excellent in performance when picking up lower frequency band sound. Our HBO0302C is so small, that earphones with limited space can use multiple ANC microphones now just like high end ANC headsets do for advanced ANC audio processing.

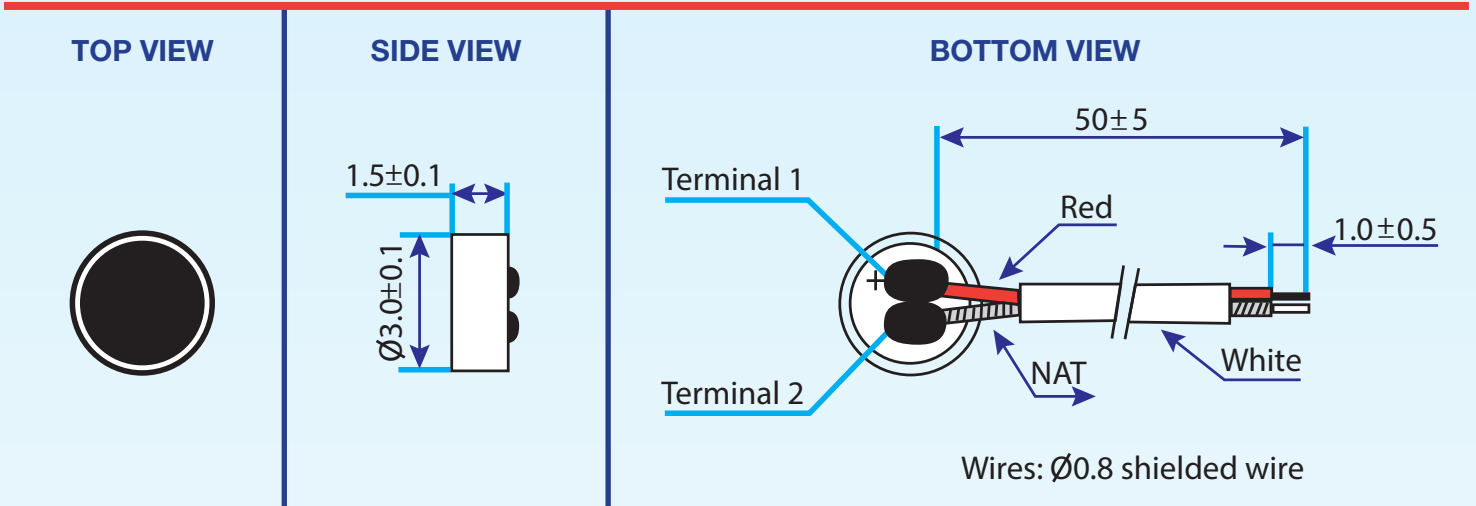
- MARKET APPLICATIONS**
- ▶ Headphones
 - ▶ Earphones
 - ▶ Wireless earphones
 - ▶ Smart speaker
 - ▶ World's smallest Active Noise Cancelling Applications

BESTAR COMPONENTS

www.bestartech.com (847)261-2850

3mm Noise Cancelling Microphone

Part # HBO0302C-58/1248



ELECTRICAL REQUIREMENTS	
Directivity	Omnidirectional
Sensitivity 0dB = 1V/Pa, 1kHz, rated voltage, $R_L = 2.2K\Omega$	-38 \pm 3 dB -38.0 ~ -35.0dB (A) -41.0 ~ -38.0dB (B)
Phase 0dB = 1V/Pa, 2V, $R_L = 2.2K\Omega$	30 $^\circ$ ~ 45 $^\circ$ (30Hz) 135 $^\circ$ ~ 145 $^\circ$ (160Hz) 18 $^\circ$ ~ 28 $^\circ$ (1KHz)
Rated Voltage	2V
Operating Voltage Range	1 ~ 10V
Current Consumption	$\leq 0.5mA$
Frequency Range	20 ~ 20KHz
Output Impedance	$\leq 2.2K\Omega$
S/N Ratio	$\geq 65dB$
Maximum input SPL THD <3%	110dB
Sensitivity Variation Vs:2V to 1.5V	Max. -3dB