



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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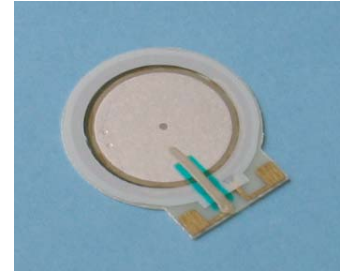
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



The World's Thinnest Mini Piezoelectric Speaker

■ Features

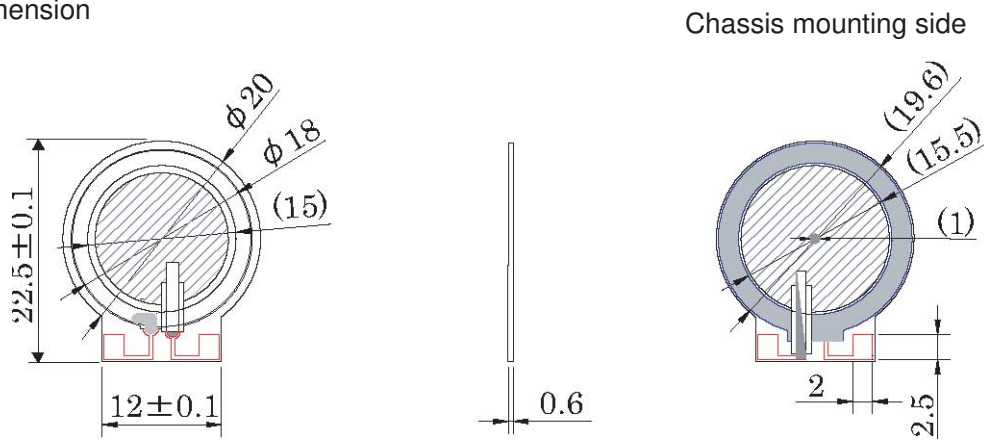
- Mini, Ultra Thin ($\Phi 20\text{mm} \times 0.6\text{t}$), High Sound Pressure Level
- Solder-less Construction by SSM Printing Technology
- Utilizes a High Reliability Multilayer Vibrating Plate made from SSM-Developed High-Efficient LTC Piezo material.



■ Applications

- Digital Still Camera, Digital Video Camera, MD(Mini Disk), Cell Phone, Electronic Dictionary, Game, etc.

■ Outer Dimension



*More than 0.5mm of open space in the front and rear of speaker is recommended for proper operation.

■ Rating

Part No. **HAP-BME-20-13N01**

Sound Pressure	72dB at 1Vrms Sine Wave, Mic. Distance 10cm, Pressure averaging at 0.8k, 1k, 1.5k, 2kHz	Sound
Resonant Frequency	1,050Hz to 1,450Hz	
Static Capacitance	950nF +/-30%	
Rated Input Voltage	1Vrms (2.8Vp-p)	
Maximum Input Voltage	10Vp-p	
Operating Temperature Range	-20°C to +60°C	
Storage Temperature Range	-30°C to +70°C	

■ Frequency Characteristics (Example)

