

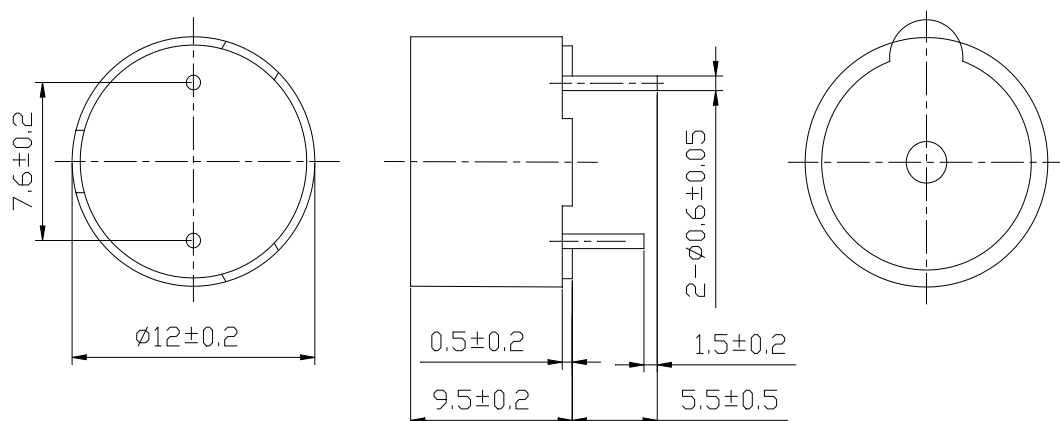
Specification for Electro-Magnetic Audio Transducer

● Technical terms

Type	M1201	M1203	M1206	M1209	M1212
Rated Voltage (V)	1.5	3	6	9	12
Operating Voltage (V)	1.3~2	2~5	4~7	7~11	8~15
*Rated Current (mA)	Max.20	Max.30			
*Sound Output at 10cm (dB)	Min.75	Min.82	Min.85		
* Resonant Frequency (KHz)	2.3±0.4		2.3±0.3		
△ Response Time (ms)	Max.50				
Operating Temperature (℃)	-25~+80				
Storage Temperature (℃)	-30~+80				
Weight (g)	2				

* Value applying rated voltage (DC)

△ Value applying (Min. operating DC.voltage)



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Reliability test

ITEM	METHOD OF TEST	STANDARD
Storage in high temp	Storage in +80° C test box for 96 hours , then expose to the room temperature for 2 hours without applying power .	All specifications must be satisfied in this condition .
Storage in low temp	Storage in -30° C test box for 96 hours , then expose to the room temperature for 2 hours without applying power .	All specifications must be satisfied in this condition .
Life test in the room temp	Operate continuously for 1000 hours with applying rated voltage .	All specifications must be satisfied in this condition .
Life test in high temp	Operate continuously in +80° C for 500 hours applying 2V(HCM1201X);5V(HCM1203X); 7V(HCM1206X);11V(HCM1209X);15V(HCM1212X) .	All specifications must be satisfied in this condition .
Life test in low temp	Operate continuously in -25° C for 500 hours applying 1.3V(HCM1201X);2V(HCM1203X); 4V(HCM1206X);7V(HCM1209X);8V(HCM1212X) .	All specifications must be satisfied in this condition .
Temperature cycle test	<p>Make this test 5 cycles without applying power , then expose to the room temperature for 2 hours .</p>	All specifications must be satisfied in this condition .
Humidity cycle test	<p>Make this test 5 cycles without applying power , then expose to the room temperature for 2 hours .</p>	All specifications must be satisfied in this condition .
Vibration	<p>Make this test for the directions of X , Y and Z for 2 hours each(total 6 hours) . To-and-fro sweep times 1 minute .</p>	All specifications must be satisfied in this condition .
Drop test	Drop a buzzer natjurally from the height of 1m to the surface 1 mm thick wooden board . Three directions(X , Y & Z) .	All specifications must be satisfied in this condition .
Solderability test	Soldering temperature : 230 °C Heat applying time : 3 sec .	All specifications must be satisfied in this condition .

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