

Description: magnetic buzzer

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Specifications			
Rated voltage	3.0 Vo-p	Vo-p ov	
Operating voltage	1.0 ~ 3.0 Vo-p		
Mean current	90 mA max.	Applying rated voltage, 2000 Hz square wave, ½ duty	
Coil resistance	15.0 ±2.0 Ω		
Coil impedance	42.5 Ω		
Sound output	Min. 90 (Typical 95) dBA	Distance at 5cm (A-weight free air). Applying rated voltage of 2000 Hz, square wave, $\frac{1}{2}$ duty.	
Rated frequency	2,000 Hz		
Operating tempurature	-20 ~ +60° C		
Storage tempurature	-30 ~ +70° C		
Dimensions	ø12.0 x H3.8 mm	See attached drawing	
Weight	1.5 g		
Material	Noryl SE1-J		
RoHS	no		

# **Frequency Response Curve**





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## **Appearance Drawing**

Tolerance: ±0.5













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### **Measurement Method**



#### **Mechanical Characteristics**

Item	Test Condition	Evaluation Standard
Vibration	The buzzer will be measured after applying	
	a vibration amplitude of 1.52 mm (9.3G) with	After the test, the part shall meet
	10 to 55 to 10 Hz band of vibration frequency to	specifications without any
	each of the 3 perpendicular directions for 2	damage to the appearance and
	hours.	the SPL should be within ±10
Drop Test	The part is to be dropped from a height of	dBA of the initial SPL.
	75 cm onto a 40 mm thick wooden board 3	
	times in 3 axis (X, Y, Z) for a total of 9 drops.	



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# **Environment Test**

Item	Test Condition	Evaluation Standard
High temp. test	The part will be subjected to +70°C for 96 hours.	
Low temp. test	The part will be subjected to -30°C for 96 hours	
Thermal shock	The part will be subjected to 10 cycles. One cycle will consist of:	
	-30°C	
	30 min. 30 min.	The buzzer will be measured afte
	60 min.	being placed at +25°C for 4 hours. There should be no degredation to the appearance or
Temp./Humidity cycle	The part should be subjected to 10 cycles. On cycle will last for 24 hours and consist of:	performance. The SPL should e be 77dBA or more
	+70°C +25°C - a b 3hrs 12±0.5 hrs 3hrs c	
	24hours	

## **Reliability Test**

Item	Test Condition	Evaluation Standard
Operating (Life Test)	1. Ordinary temperature:	
	The part will be subjected to 1000 hours at	
	room temperature (+25±10°C) with 3.0 V,	
	2000 Hz applied.	After the test, the part shall mee specifications without any
	2. High temperature:	damage to the appearance or
	The part will be subjected to 500 hours at	performance. After 4 hours at
	+60°C with 3.0 V, 2000 Hz applied.	+25°C, the SPL should be
		77 dBA or more.
	3. Low temperature:	
	The part will be subjected to 500 hours at	
	-20°C with 3.0 V, 2000 Hz applied.	

## **Test Conditions**

Standard Test Condition	a) Tempurature: +5 ~ +35°C	b) Humidity: 45 - 85%	c) Pressure: 860 - 1060 mbar
Judgement Test Condition	a) Tempurature: +25±2°C	b) Humidity: 60 - 70%	c) Pressure: 860 - 1060 mbar

20050 SW 112th Ave.



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Packaging



TRAY	184mmx184mmx24mm	1x100PCS=100PCS
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