Buzzer, Magnetic SB030PM-09055-T85



Description

A magnetic buzzer is an electronic device that produces a sound when an electrical signal is applied to it. The function of a magnetic buzzer is to provide an audible alert or notification in various electronic devices such as alarms, timers, and electronic toys. The buzzer consists of a coil of wire and a magnet that vibrate when an alternating current is passed through the coil.



Applications

- Electronic devices
- Industrial and commercial equipment
- Home appliances
- Toys and games
- Sound effects
- Audio Alerts
- Warning Signals

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Features

Item	Specification	Unit	Condition
Oscillation Frequency	2731	Hz	
Operating Voltage	2~5	Vo-р	
Rated Voltage	3	Vo-р	
COIL RESISTANCE	25±3	Ω	
Current Consumption	MAX. 80	mA	at Rated Voltage
Sound Pressure Level	MIN. 85	dB	at 10cm at Rated Voltage
Operating Temperature	-20~ +70	°C	
Storage Temperature	-30 ~ +80	°C	



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Dimension	Ф9.0 x H5.5	mm	See appearance drawing
Housing Material	PBT		
Coil	High temperature enameled wire		
Certifications	RoHS		Environmental
			Protection Regulation

Appearance Drawing

Tol : ± 0.5 Unit: mm





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Testing method

Standard Measurement conditions

Temperature: $25\pm2^{\circ}C$

Humidity: 45-65%

Acoustic Characteristics

The oscillation frequency, current consumption and sound pressure are measured by the

measuring instruments at 10 cm.

Typical Frequency Response Curve



F. RELIABILITY TEST

ITEM	TEST CONDITION AND REQUIREMENT
High Temperature	After being placed in a chamber with 80□2ºC for 96 hours and then being
Test (Storage)	placed in normal condition for 2 hours. Allowable variation of SPL after test:

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V01.00

Data can change without any prior notifications

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Low Temperature	After being Placed in a chamber with -302°C for 96 hours and then being		
Test (Storage)	placed in normal condition for 2 hours. Allowable variation of SPL after test:		
Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40 ⁻² C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ⁻¹⁰⁰ B.		
Temperature Cycle	The part shall be subjected to 5 cycles. One cycle shall be consist of :		
Test	$+60^{\circ}C$ $+25^{\circ}C$		
Drop Test	Drop on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm. Allowable variation of SPL after test: 10dB.		
Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz		
	band of vibration frequency to each of 3 perpendicular directions for		
	2 hours. Allowable variation of SPL after test: 10dB.		
Solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in		
Test	solder bath of +300□5ºC for 3□1 seconds. 90% min. lead terminals shall be wet with solder (Except the edge of terminals).		
Terminal Strength	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10		
Pulling Test	seconds. No visible damage and cutting off.		

Test condition

Standard Test Condition

Temperature:

+5 ~ +35℃



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Humidity:	45-85%
Pressure:	860-1060mbar
Judgment Test Condition	
Temperature:	+25 ± 2 ℃
Humidity:	60-70%
Pressure:	860-1060mbar

Packing standard



Foam Tray	240mmx160mm	1x100PCS=50PCS
Plastic Bag		10x100PCS=1000PCS
Carton Box	420mmx515mmx280mm	5x1000PCS=5000PCS

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Part number

SBXXXXX-XXX-XX

SB	Buzzer
XXX	Rated power
X	Passive / Active
X	Piezo / Magnetic
XXXXX	Size
x	THT / SMD
хх	dB @ rated power

Ordering information

Ordering can be done via <u>www.summit-electronics.com</u> or via <u>info@summit-electronics.com</u>. Please contact us for more information. Customisation of the product is available on request.

Technical support

For all product questions please contact us via info@summit-electronics.com

Document revision

Rev	Date	Changes
V01.00	06-04-2023	First issue of document

