SB030PM-12060-T88



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
- Audio Feedback

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Active / Passive

Features

Item	Specification	Unit	Condition
Oscillation frequency	2731	Hz	
Operating voltage	2-5	Vo-p	
Rated voltage	3	Vo-p	
Coil resistance	16±3	Ω	
Current consumption	MAX. 80	mA	at Rated Voltage
Sound pressure level	MIN. 88	dB	at 10cm at Rated Voltage
Operating temperature	-20~ +60	°C	

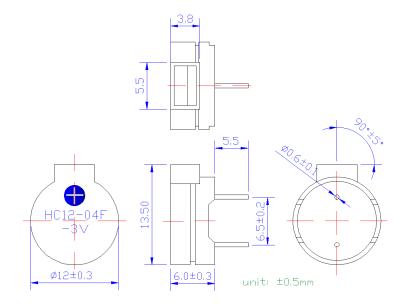


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Storage temperature	-30 ~ +70	°C	
Dimension	Ф12 х Н6.0	mm	See appearance drawing
Housing material	PPO(Black)		
Certification	RoHS		

Appearance drawing



Tol: ± 0.5 Unit: mm

Testing method

Standard Measurement conditions

Temperature: 25±2°C

Humidity: 45-65%

Acoustic Characteristics

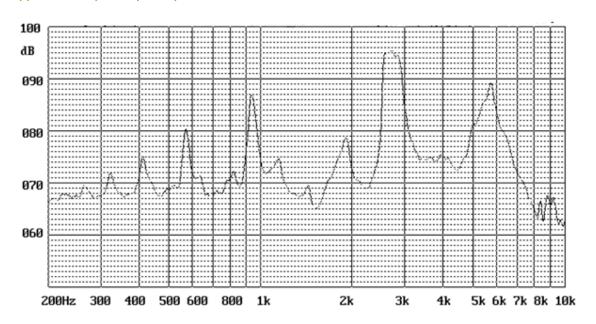
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments at 10 cm.



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Typical Frequency Response Curve



Reliability test

Test (Storage)

Humidity Test

ITEM

TEST CONDITION AND REQUIREMENT

High Temperature	After being placed in a chamber with 70±2°C for 96 hours and
Test (Storage)	then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.
Low Temperature	After being Placed in a chamber with -30±2°C for 96 hours and

then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.

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: ±10dB.



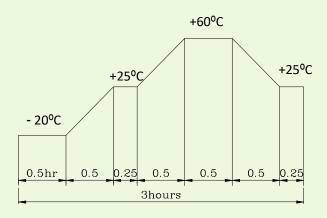
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Temperature Cycle

Test

The part shall be subjected to 5 cycles. One cycle shall be consist of :



Allowable variation of SPL after test: ±10dB.

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: ± 10 dB.

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

Test

Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300±5°C for 3±1 seconds. 90% min. lead terminals shall be wet with solder (Except the edge of terminals).

Terminal Strength

Pulling Test

The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.

Test condition

Standard Test Condition

Temperature: $+5 \sim +35$ °C

Humidity: 45-85%

Pressure: 860-1060mbar

Judgment Test Condition



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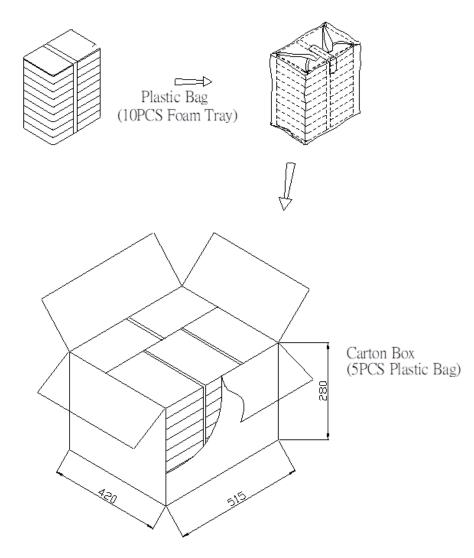


Temperature: $+25 \pm 2$ °C

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
XX	dB @ rated power

Ordering information

Ordering can be done via www.summit-electronics.com. 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

