Buzzer, Magnetic

SB036PM-8530-S85

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

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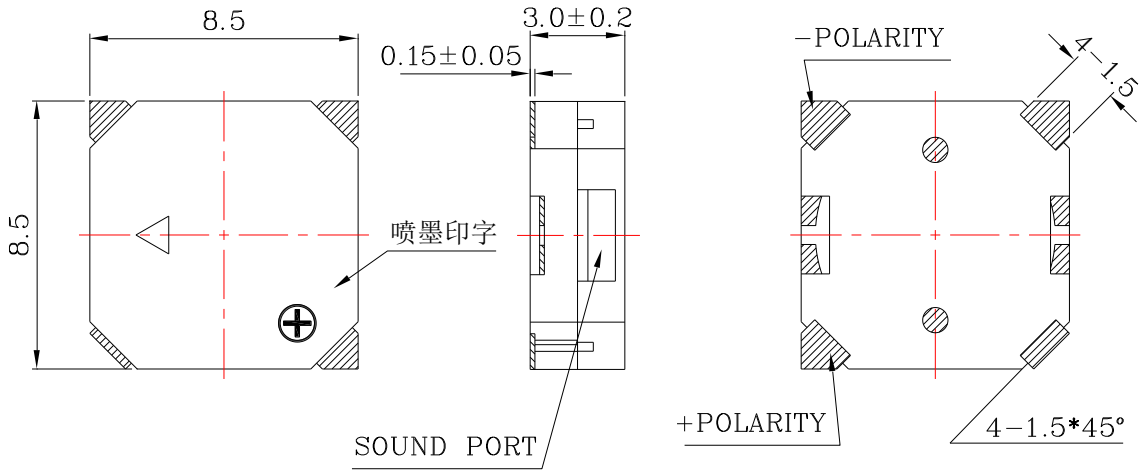
Features

Item	Specification	Unit	Condition
Oscillation Frequency	2730	Hz	Vo-p=1/2duty , square wave
Operating Voltage	2.5 ~ 4.5	Vo-p	
Rated Voltage	3.6	Vo-p	
Current Consumption	MAX. 100	mA	at Rated Voltage
Sound Pressure Level	MIN. 85	dB	at 10cm at Rated Voltage
Coil Resistance	16±3	Ω	
Operating Temperature	-20 ~ +70	℃	
Storage Temperature	-30 ~ +80	℃	
Dimension	8.5 x 8.5 x H3.0	mm	See appearance drawing
Weight	0.8	gram	
Housing Material	LCP(Black)		
Leading Pin	Tin Plated Brass(Sn)		See appearance drawing
Certification	RoHS		

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APPEARANCE DRAWING



Tol : ± 0.3 Unit: mm

Testing method

Standard Measurement conditions

Temperature:	25 ± 2℃
Humidity:	45 - 65%

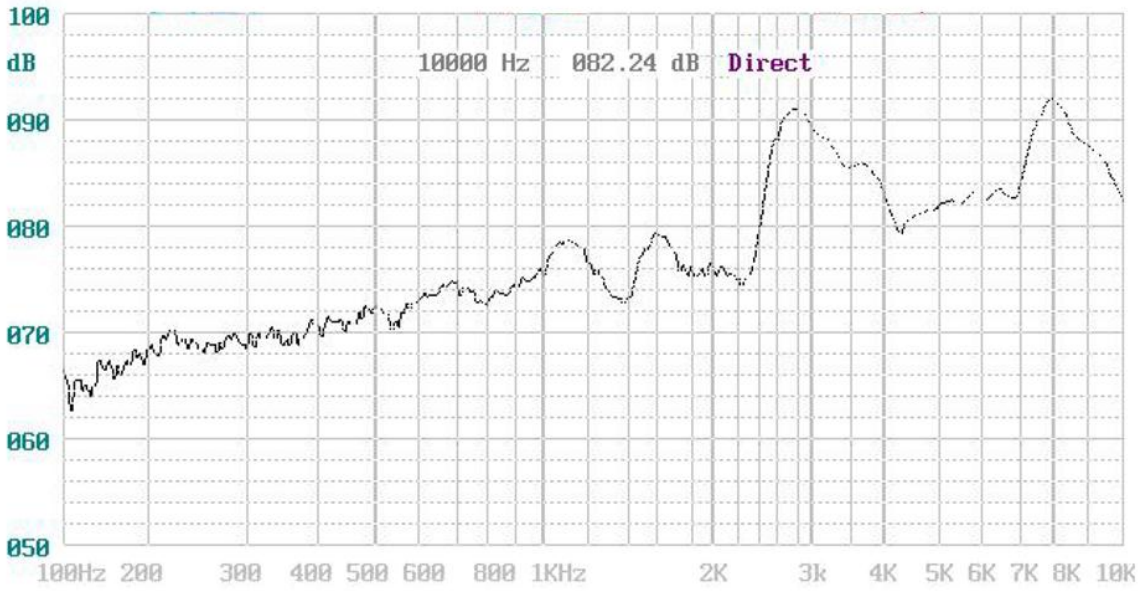
Acoustic Characteristics

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

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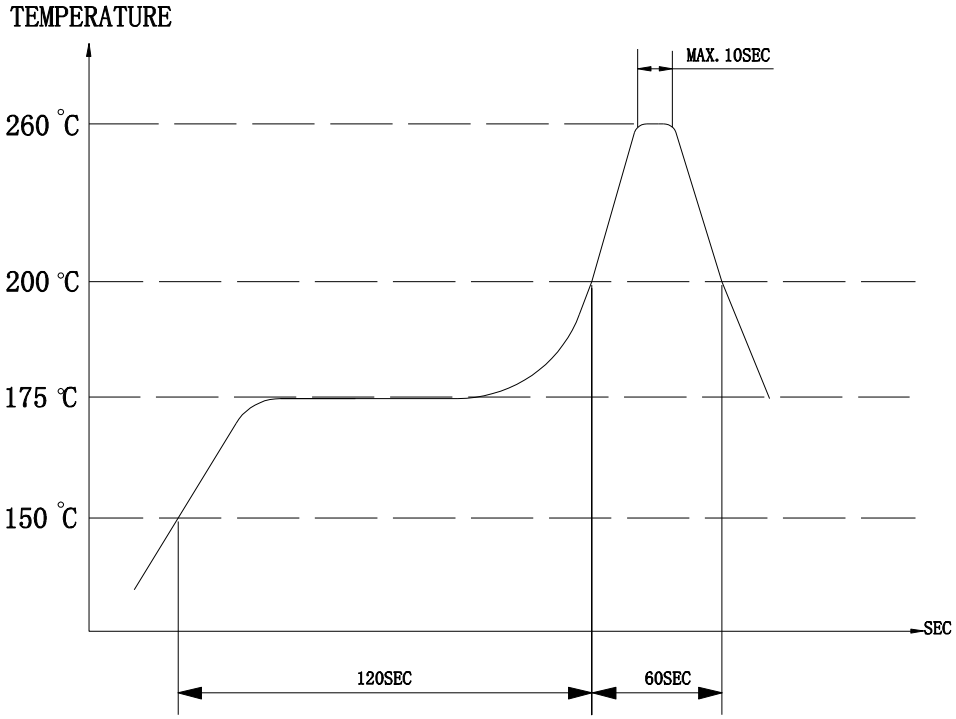
Typical Frequency Response Curve



Soldering Condition

Recommendable reflow soldering condition is as follows (Reflow soldering is twice)

Note: It is requested that reflow soldering should be executed after heat of product goes down to normal.

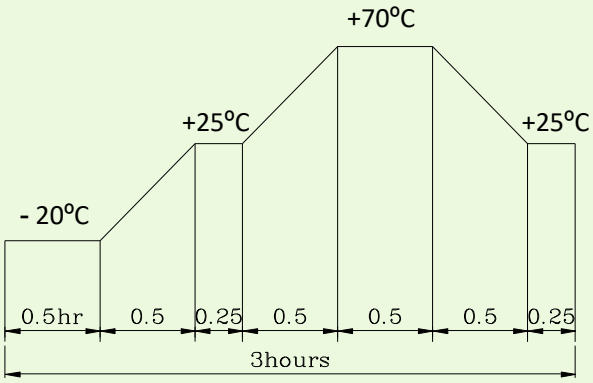


Heat resistant line (Used when heat resistant reliability test is performed)

Manual soldering temperature 350 ºC within 5 sec.

Reliability test

Item	Test condition and requirement
High Temperature Test (Storage)	After being placed in a chamber with 80□2ºC for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: □10dB.
Low Temperature Test (Storage)	After being Placed in a chamber with -30□2ºC for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: □10dB.
Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40□2ºC for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: □10dB.

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: □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 Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in 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 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 ~ +35℃
Humidity:	45 - 85%
Pressure:	860 - 1060mbar

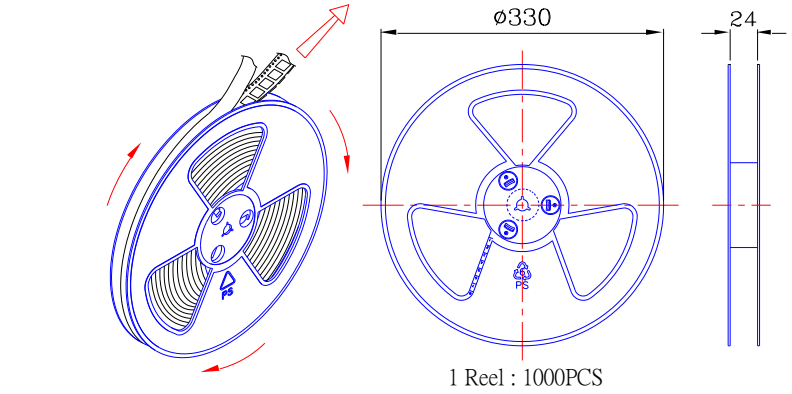
Judgment Test Condition

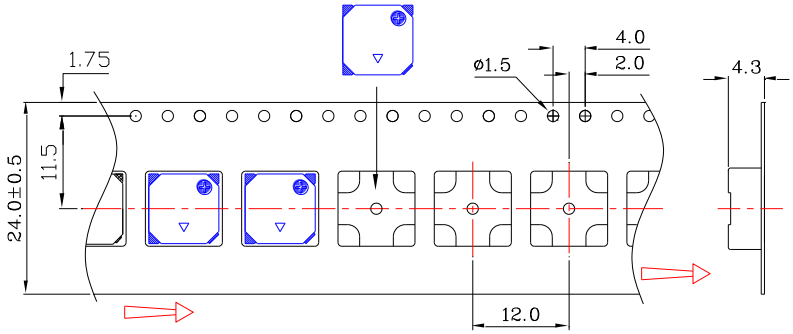
Temperature:	+25 ± 2℃
Humidity:	60 - 70%
Pressure:	860 - 1060mbar

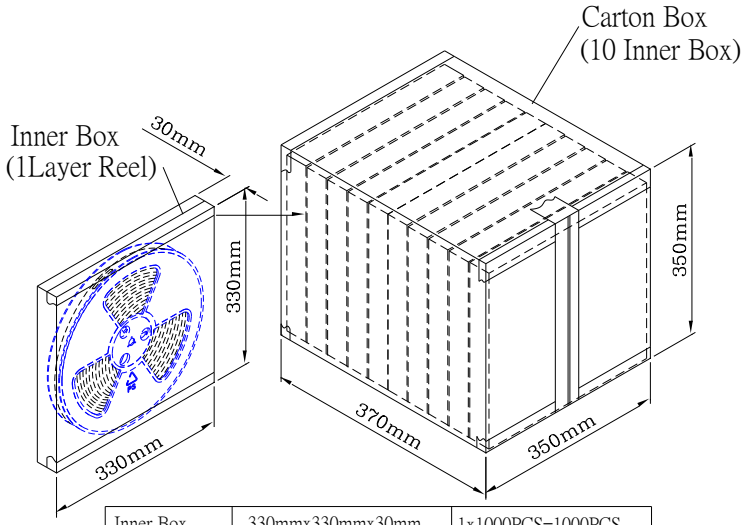
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Packing standard







Inner Box	330mmx330mmx30mm	1x1000PCS=1000PCS
Carton Box	350mmx350mmx370mm	10x1000PCS=10,000PCS

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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 or via info@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