

PRODUCT SPECIFICATION

Product Name:	SMD BUZZER
Part Number:	SM09PT02AV3SH
Document No:	
Date:	2021.06.01

DRAWING BY	CHECKED BY	APPROVED BY
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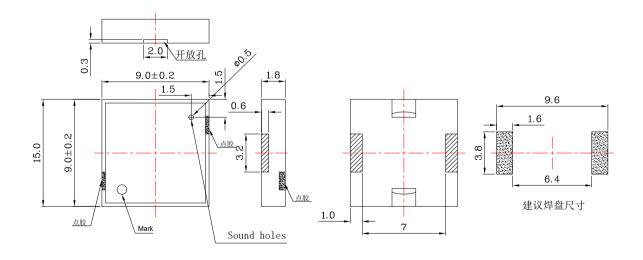
A. SCOPE

This specification applies Piezo buzzer, SM09PT02AV3SH

B. SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4000	Square Wave
2	Operating Voltage	Vp-p	1 ~25	
3	Rated Voltage	Vp-p	3	
4	Current Consumption	mA	MAX. 5	at Rated Voltage
5	Sound Pressure Level	dB	MIN.65	at 10cm at Rated Voltage
6	Electrostatic Capacity	рF	12000±30%	at 100Hz 1V
7	Operating Temperature	${\mathbb C}$	-30~ +70	
8	Storage Temperature	$^{\circ}\! C$	-40 ~ + 85	
9	Dimension	mm	9.0 x 9.0 x H1.8	See appearance drawing
10	Weight (MAX)	gram	0.3	
11	Housing Material		LCP(Black)	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING



Tol: ± 0.2 Unit: mm



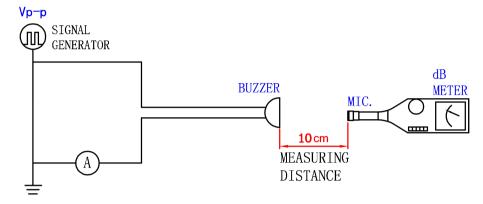
D.TESTING METHOD

Standard Measurement conditions

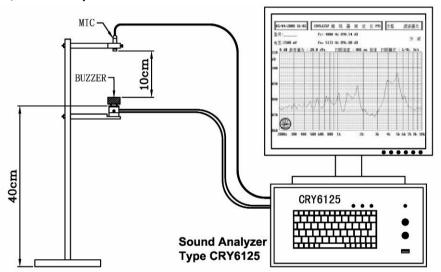
Temperature:25 ± 2 °C Humidity:45-65%

Acoustic Characteristics:

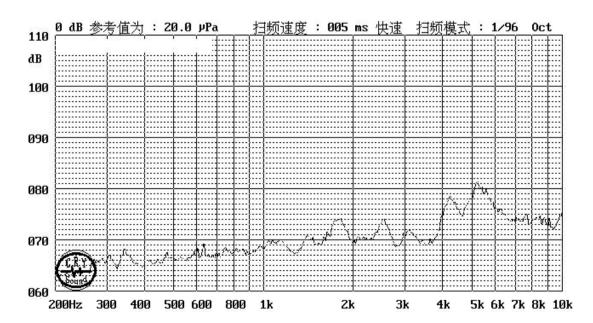
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



In the measuring test, buzzer is placed as follows:



E. Typical Frequency Response Curve



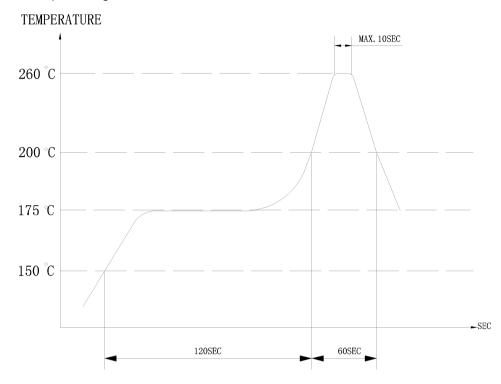
Address:Building 5, No. 8 Chuangye Road, Shezhu Town, Liyang City, Changzhou, Jiangsu, China Tel:86-519-89185720 E-mail:sales@manorshi.com Http://www.manorshi.com



F. Soldering Condition

(1)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)

(2)Manual soldering

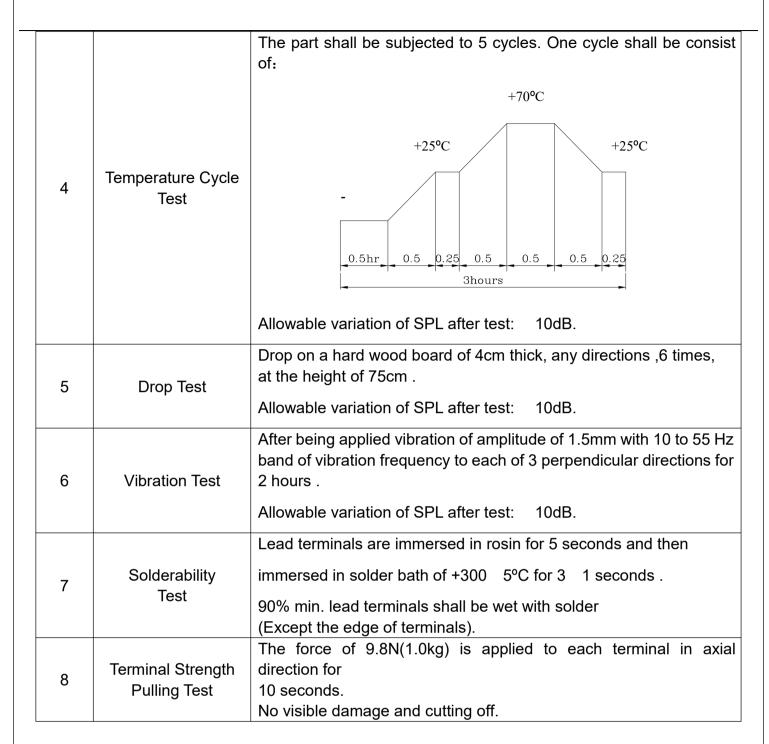
Manual soldering temperature 350° C within 5 sec.

G. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT		
1	High Temperature Test (Storage)	After being placed in a chamber with 85 2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.		
2	Low Temperature Test (Storage)	After being Placed in a chamber with -40 2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.		
3	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: 10dB.		

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TEST CONDITION.

Standard Test Condition : a) Temperature : +5 ~ +35 ℃ b) Humidity : 45-85% c) Pressure

860-1060mbar

一般测试条件 : a) 温度:+5~+35℃ b) 湿度:45-85% c) 气压:860-1060mbar Judgment Test Condition : a) Temperature:+25 ± 2℃ b) Humidity:60-70% c) Pressure

860-1060mbar

争议时测试条件 : a) 温度:+25 ± 2℃ b) 湿度:60-70% c) 气压:860-1060mbar



H. PACKING STANDARD

