



请承认书

Version No.: V2.0

常州昊翔电子有限公司
Changzhou HaoXiang Electronic Co., LTD

客户名称

CUSTOMER NAME: _____

产品名称

COMMODITY : SMD PIEZO BUZZER

产品型号

MODEL NO : TDA-M09240

客户料号

PART NO : _____

审核

秦皓

主办

曹升薪 Nov.21,2018

客户承认栏

承认

拒收

常州昊翔电子有限公司

常州声翔电子有限公司

常州公司:

江苏省常州市戚区潞城镇富民路 286 号

TEL:86-519-8363089 13585451311

FAX:86-519-88353844

E-mail: sales@tda-buzzer.com sales2@tda-buzzer.com

南通工厂:

江苏如皋市郭元镇工业园辰翔工业区

TEL:86-513-87910588 871919168

FAX:86-513-87915598

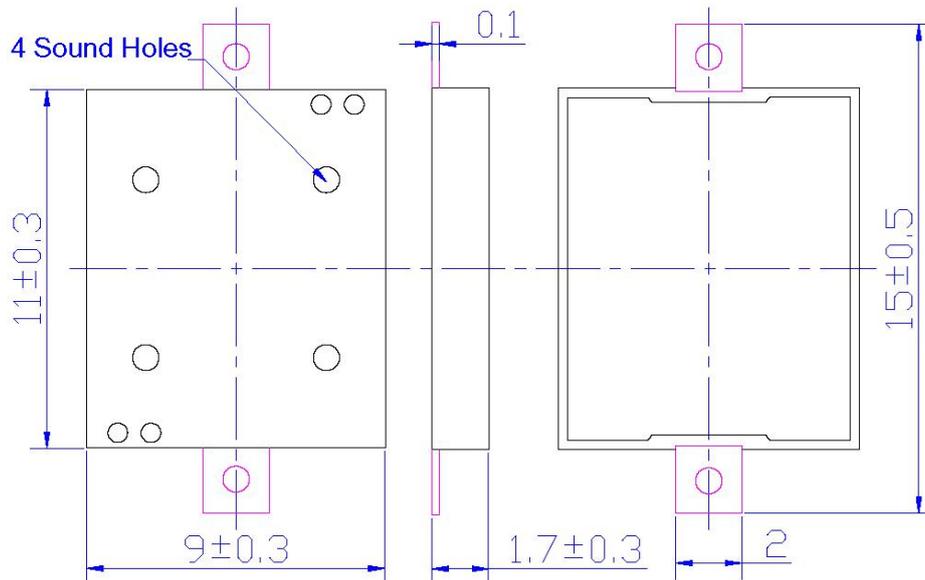
A. SCOPE

This specification applies piezo buzzer, **TDA-M09240**

B. SPECIFICATION

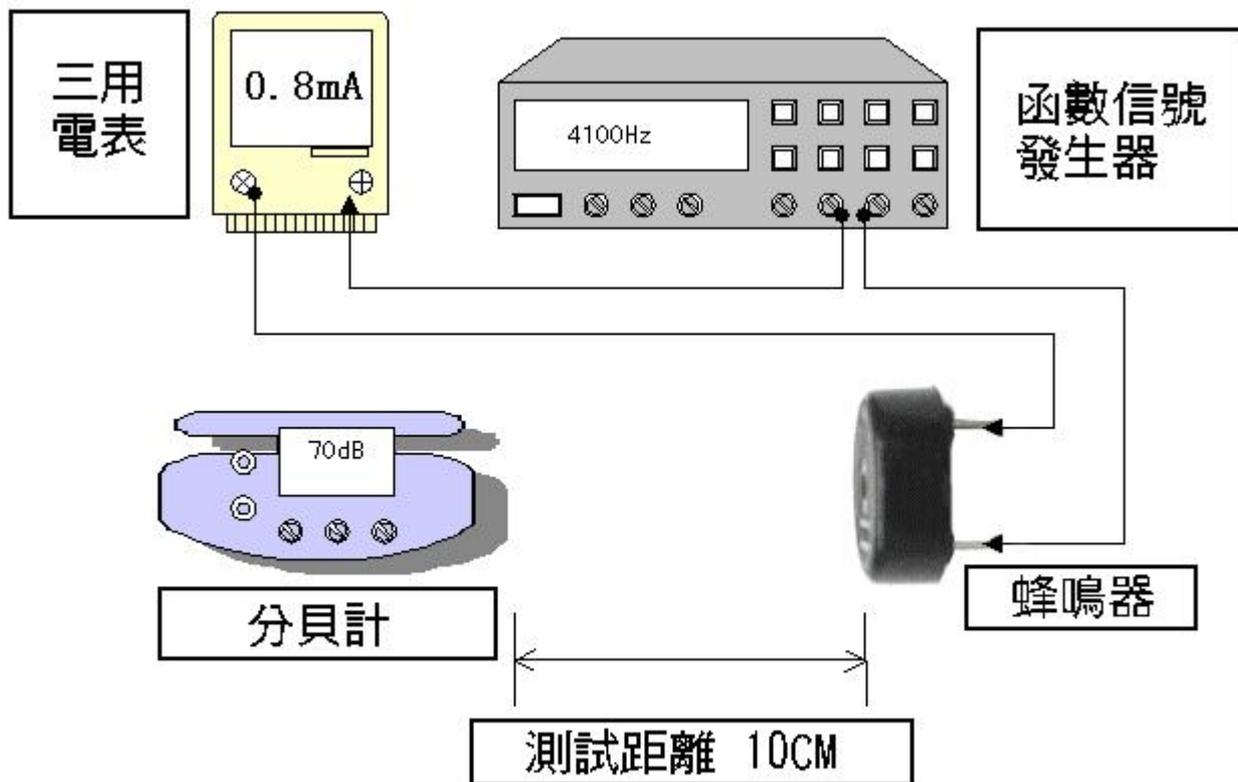
No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4100	square wave
2	Operating Voltage	Vp-p	25max	square wave
3	Current Consumption	mA	MAX. 2	at 5Vp-p ,4000Hz
4	Sound Pressure Level	dB	MIN. 70	at 10cm 5Vp-p 4000Hz
5	Operating Temperature	°C	-20 ~ +85	
6	Storage Temperature	°C	-30~ +90	
7	Dimension	mm	11.0x9.0xH1.7	See appearance drawing
8	Weight (MAX)	gram	0.5	
9	Housing Material		LCP(Black)	
10	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
11	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING

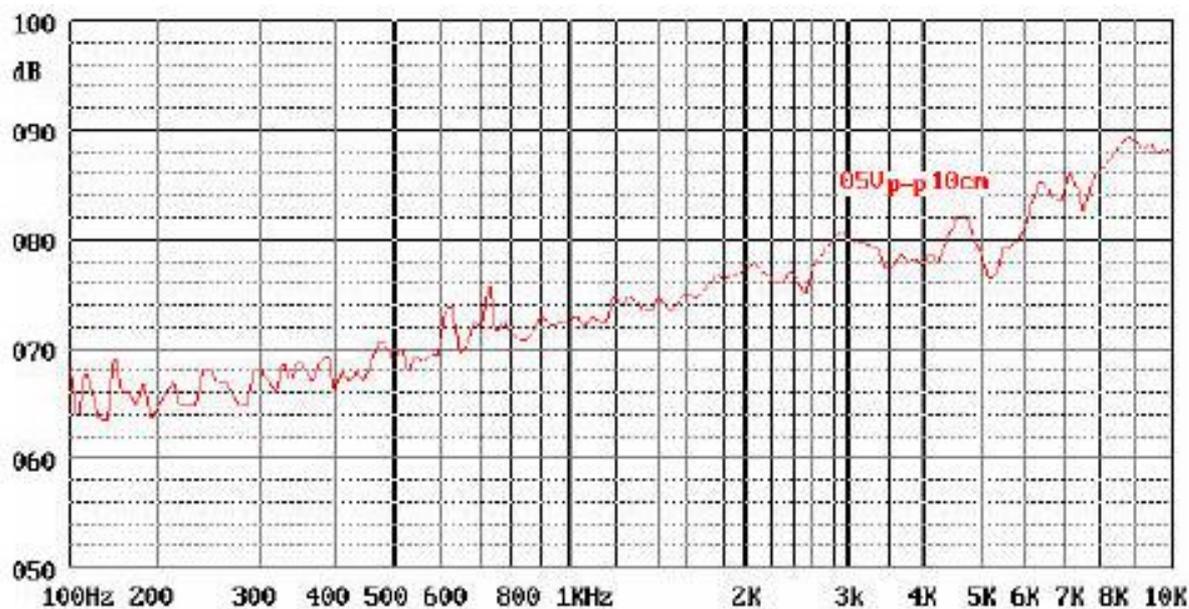


Unit:mm Tolerance : ± 0.5 mm

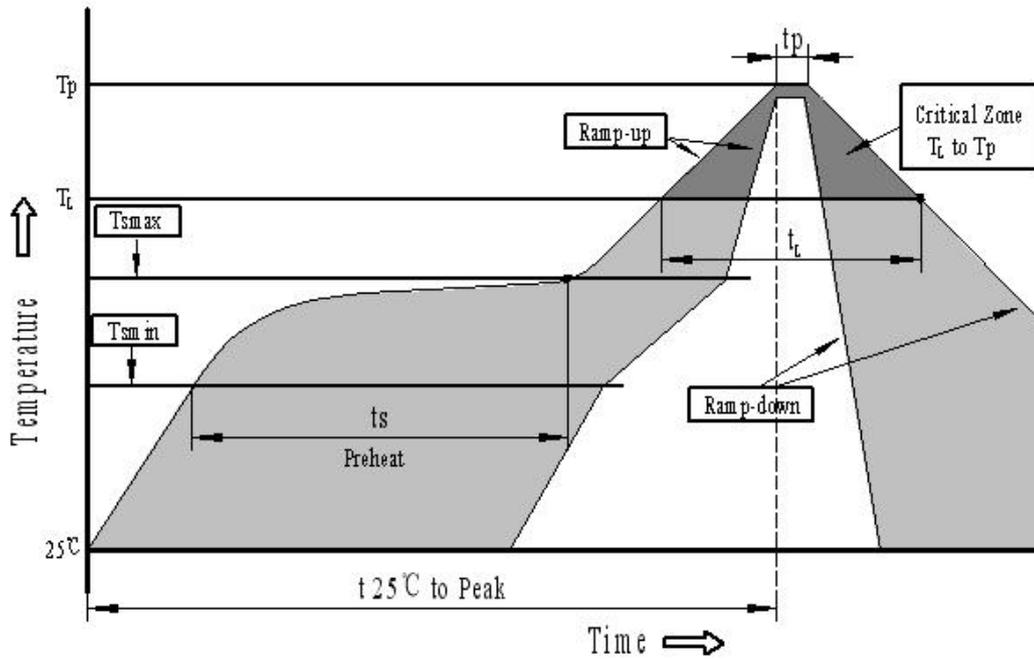
D. RECOMMEND DIRVING CIRCUIT



E. FREQUENCY CURVE



F.RECOMMENDED TEMP. PROFILE FOR REFLOW OVEN



Profile Feature	Pb-Free Assembly
Average ramp-up rate(T_L to T_p)	3°C/second max.
Preheat	
-Temperature Min.(T_{smin})	150°C
-Temperature Min.(T_{smax})	200°C
-Temperature Min.(t_s)	60~180 seconds
T_{smax} to T_L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature(T_L)	217°C
-Time(T_L)	60~150 seconds
Peak temperature(T_p)	245°C+0/-5°C
Time within 5°C of actual Peak temperature (t_p)	6 seconds max.
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

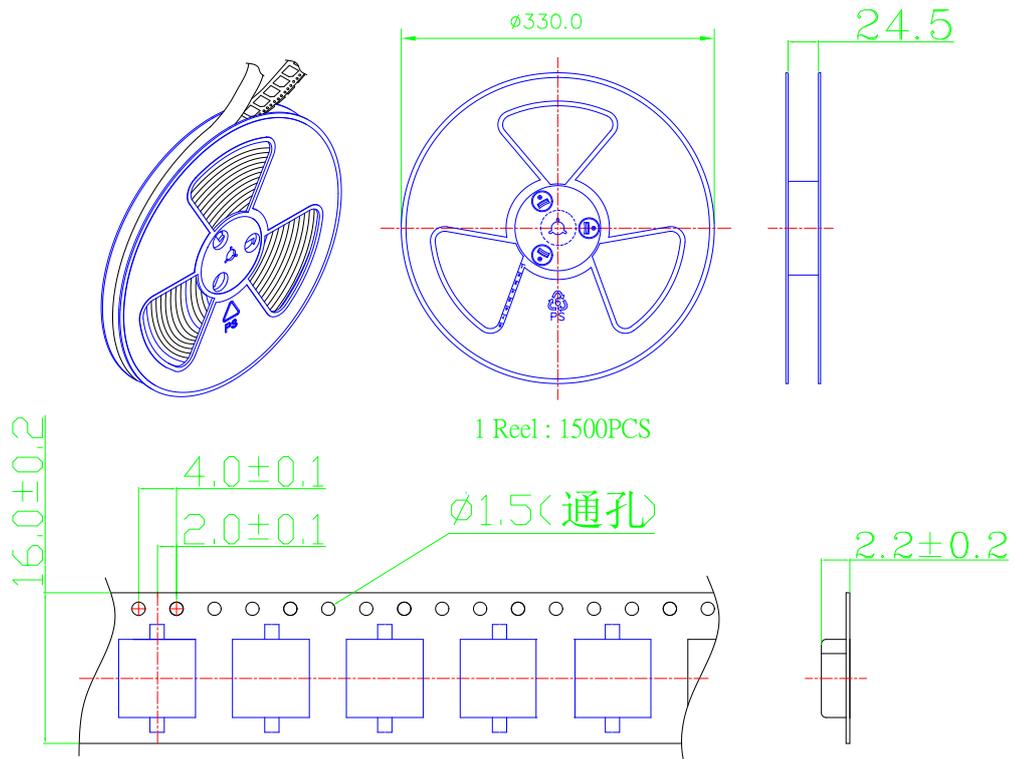
G. RELIABLY TEST

NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
1	High temp. storage life	The part shall be capable of withstanding a storage temperature is +90°C for 96 hours	Being placed for 4 hours at 25°C, buzzer shall be measured. The value of oscillation frequency and current consumption should be in ±10% compared with initial one. The SPL should be in ±10dB compared with initial one.
2	Low temp. storage life	The part shall be capable of withstanding a storage temperature is -30°C for 96hours	
3	Temp. Cycle	<p>The part shall be subjected to 5 cycles. One cycle shall be consist of:</p> <p>The diagram shows a temperature cycle over 3 hours. It starts at -40°C for 0.5 hours, then ramps up to +25°C in 0.5 hours, holds at +25°C for 0.5 hours, ramps up to +85°C in 0.5 hours, holds at +85°C for 0.5 hours, ramps down to +25°C in 0.5 hours, holds at +25°C for 0.5 hours, and finally ramps down to -40°C in 0.25 hours. The total cycle time is 3 hours.</p>	
4	Humidity Test	40±2°C, 90~95% RH, 96hours	
5	Vibration Test	<p>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 .</p> <p>Allowable variation of SPL after test: 10dB.</p>	The value of oscillation frequency and current consumption should be in ±10% compared with initial ones. The SPL should be in ±10dB compared with initial one.
6	Drop Test	<p>Drop on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm .</p> <p>Allowable variation of SPL after test: 10dB.</p>	
7	Solderability Test	<p>Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +245 ± 5° C for 3 ± 1 seconds .</p> <p>90% min. lead terminals shall be wet with solder (Except the edge of terminals).</p>	After the test part shall meet specifications without any degradation in appearance and performance.
8	Terminal Strength Pulling Test	<p>The part shall be pushed with a force of 9.8N for 10±1 seconds behind the part.</p> <p>The diagram shows a rectangular component with two terminals on top. An upward-pointing arrow indicates the direction of the force applied to the terminals.</p>	

TEST CONDITION

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

H.PACKING STANDARD



I. NOTE CAUTIONS

- a. Can not be applied DC bias voltage and a sounding body or pronunciation elements, otherwise its insulation resistance will decrease and the use of performance degradation.
- b. Can not be imposed over pronunciation body or pronunciation components allows the use of voltage range of the voltage on the.
- c. Please pay attention in welding process, don't let soldering flux invasion into the sound chamber , otherwise flux can cause defect conduction .
- d. Use should handle with care, avoiding direct pressure contact, or inadvertently falling down, to prevent the occurrence of fault, or the generation characteristics of abnormal movements.

