



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 MAGNETIC BUZZER

产品型号

MODEL NO : TDA-M90025-0327

客户料号

PART NO : _____

审核	秦皓	主办	唐俐雅 Aug.8,2018
----	----	----	----------------

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

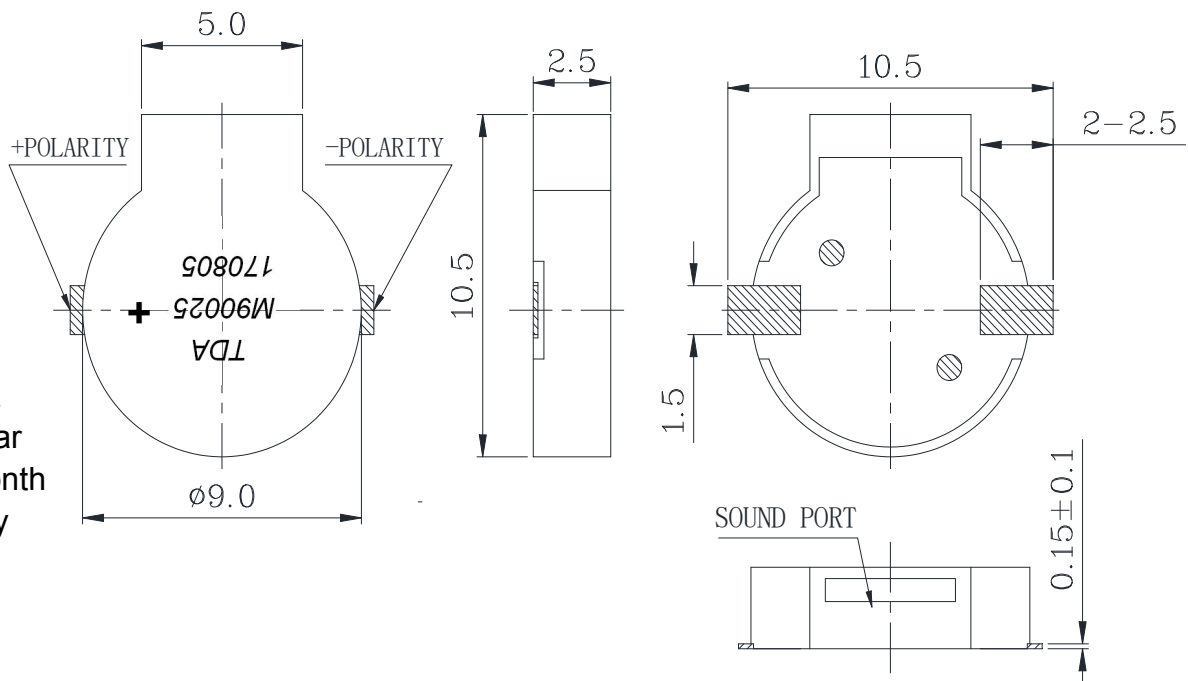
A. SCOPE

This specification applies magnetic buzzer, **TDA-M90025-0327**

B. SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2730	Square Wave
2	Operating Voltage	Vdc	2.5~4.5	
3	Rated Voltage	Vdc	3.6	
4	Current Consumption	mA	MAX.110	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 83	at 10cm , Rated Voltage, 1/2duty
6	Coil Resistance	Ω	16 \pm 3	
7	Operating Temperature	$^{\circ}\text{C}$	-30 ~ +70	
8	Storage Temperature	$^{\circ}\text{C}$	-40 ~ +85	
9	Dimension	mm	$\Phi 9.0 \times H2.5$	See appearance drawing
10	Weight (MAX)	gram	0.5	
11	Housing Material		LCP(Black)	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

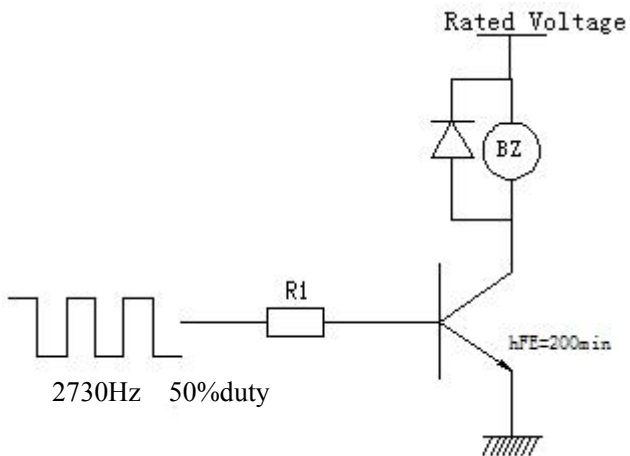
C. APPEARANCE DRAWING



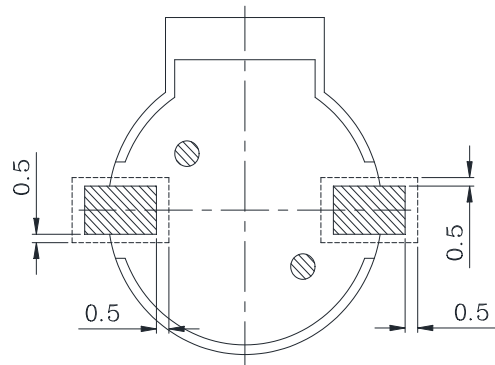
NOTE
17:Year
08:month
05:day

Unit:mm Tolerance : $\pm 0.5\text{mm}$

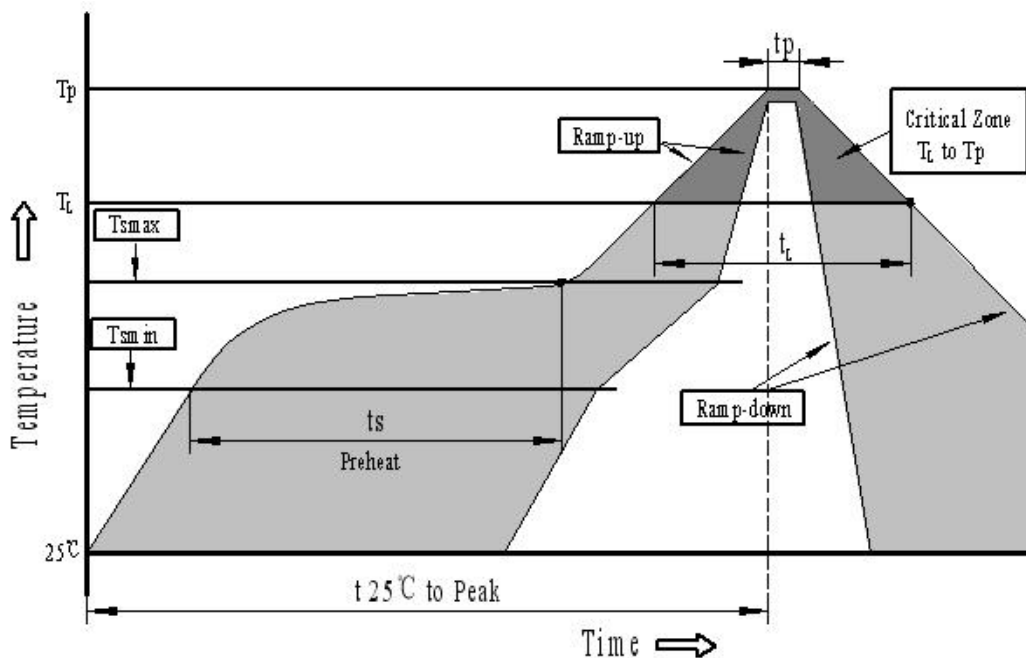
D. RECOMMEND DRIVING CIRCUIT



RECOMMENDED LAND PATTERN

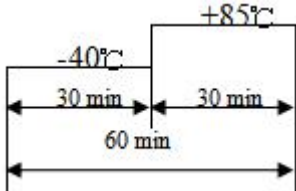
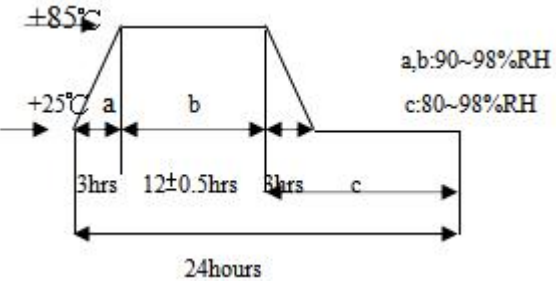


E. RECOMMENDED TEMP. PROFILE FOR REFLOW OVEN



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.

F.RELIABILTY TEST

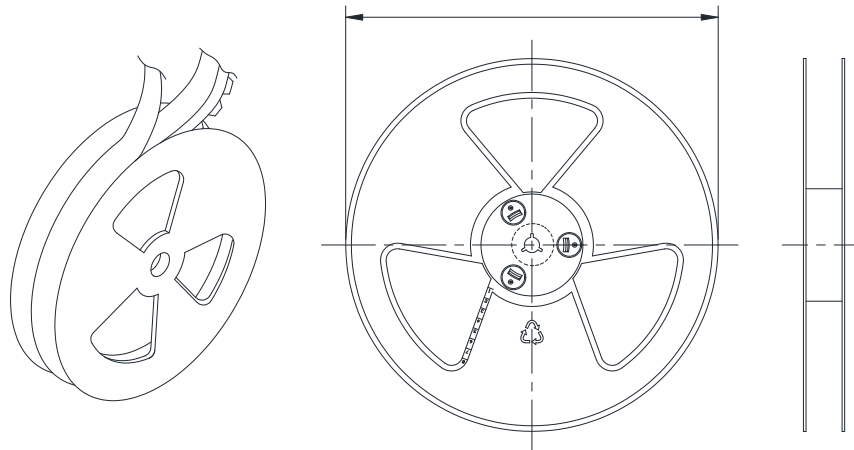
NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with +85°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.
2	Low Temperature Test (Storage)	After being Placed in a chamber with -40°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.
3	Thermal shock	The part shall be subjected to 10 cycles. One cycle shall consist of: <div style="text-align: center;">  <p>The diagram shows a thermal shock cycle. It starts at -40°C for 30 minutes, then transitions to +85°C for 30 minutes. The total duration of one cycle is 60 minutes.</p> </div> Allowable variation of SPL after test: ±10dB.
4	Temperature Cycle Test	The part shall be subjected to 10 cycles. One cycle shall be consist of: <div style="text-align: center;">  <p>The diagram shows a 24-hour temperature cycle test. It starts at +25°C, ramps up to +85°C over 3 hours (stage 'a'), holds at +85°C for 12±0.5 hours (stage 'b'), ramps down to +25°C over 3 hours, and then holds at +25°C for 'c' hours. Humidity conditions are specified as a,b:90~98%RH and c:80~98%RH.</p> </div> Allowable variation of SPL after test: ±10dB.
5	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.
6	Vibration Test	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm(9.3G).The vibration test shall consist of 2 hours per axis in each three axes(X,Y,Z),Total 6 hours. Allowable variation of SPL after test: ±10dB.
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +245±5°C for 3±0.5 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).
8	Terminal Strength Pulling Test	The force of 9.8N(1.0kg) is applied to terminal for 10 seconds. No damage and cutting off

TEST CONDITION

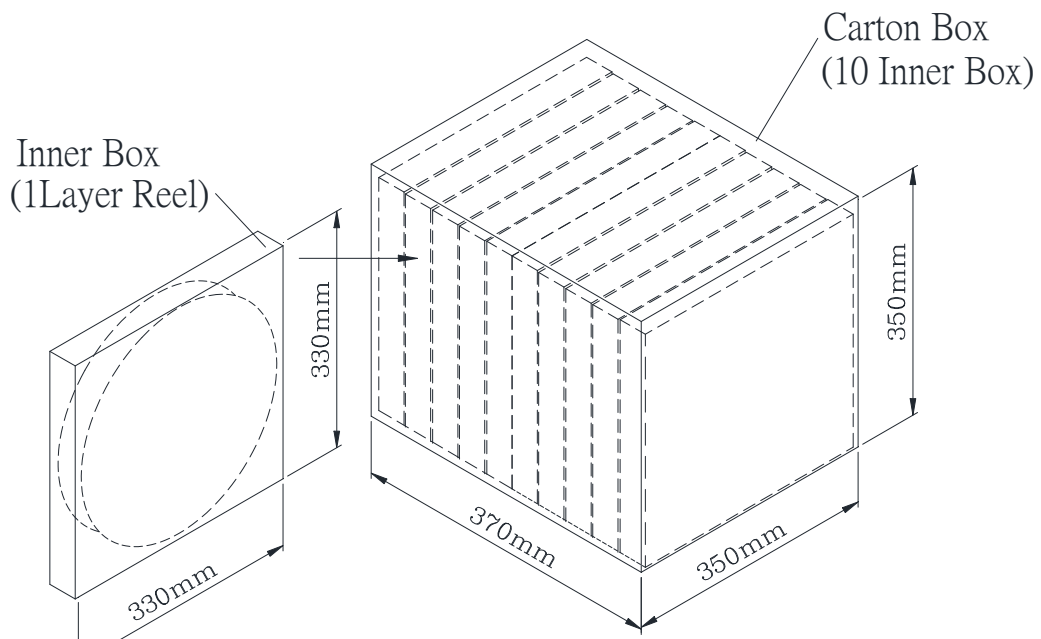
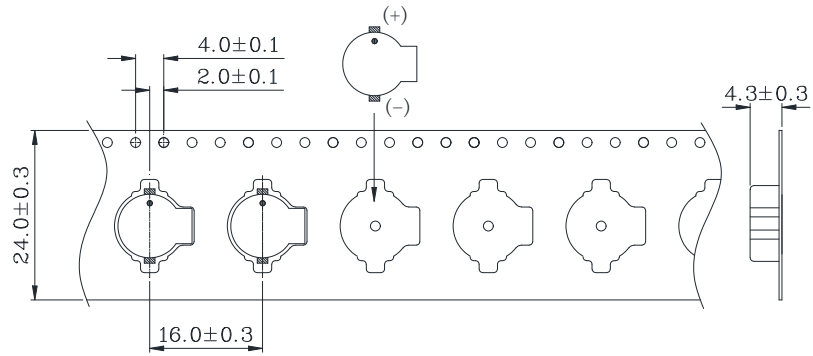
Standard Test Condition : a) Temperature : +5 ~ +35°C b) Humidity : 45-85% c) Pressure : 860-1060mbar

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

G. PACKING STANDARD



1 Reel : 1000PCS



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

