



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 NAMER : _____

产品名称

COMMODITY : SMD MAGNETIC BUZZER

产品型号

MODEL NO : TDA-M85030-0540

客户料号

PART NO : _____

审核	秦皓	主办	唐俐雅 Jan.18,2019
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客户承认栏			
承认		拒收	

常州昊翔电子有限公司

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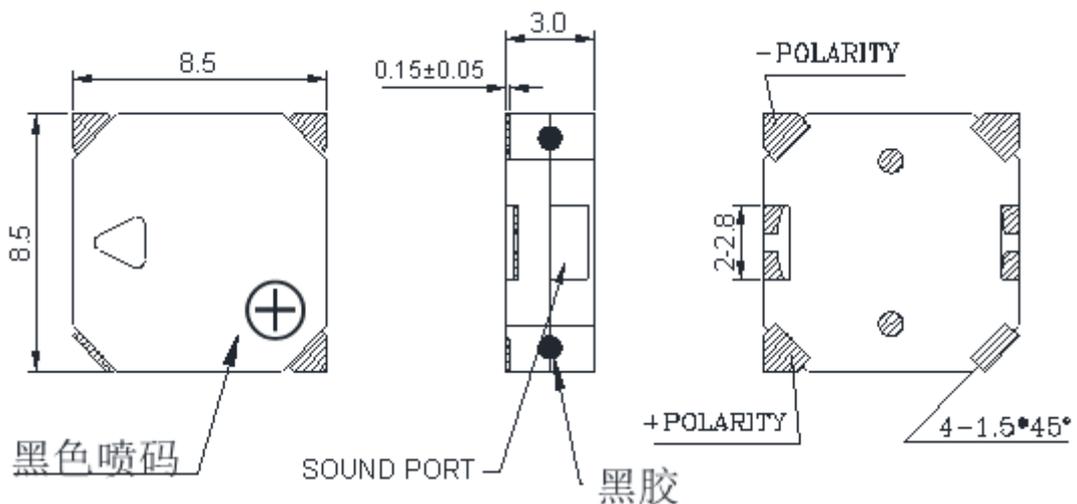
A. SCOPE

This specification applies magnetic buzzer, **TDA-M85030-0540**

B. SPECIFICATION

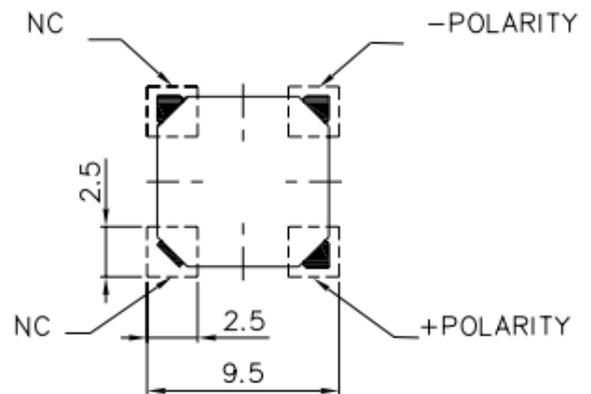
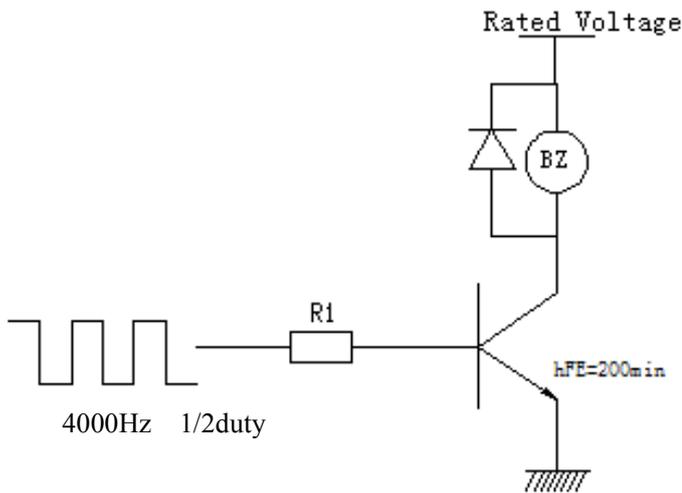
No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4000	Square Wave
2	Operating Voltage	Vo-p	4 ~ 7	
3	Rated Voltage	Vo-p	5	
4	Current Consumption	mA	MAX. 80	at 10cm ,5Vo-p,4000Hz,1/2duty
5	Sound Pressure Level	dB	MIN. 85	at 10cm ,5Vo-p,4000Hz,1/2duty
6	Coil Resistance	Ω	30 \pm 5	
7	Operating Temperature	$^{\circ}$ C	-30 ~ +70	
8	Storage Temperature	$^{\circ}$ C	-40 ~ +85	
9	Dimension	mm	8.5 x 8.5 x H3.0	See appearance drawing
10	Weight (MAX)	gram	0.6	
11	Housing Material		LCP(Black)	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING



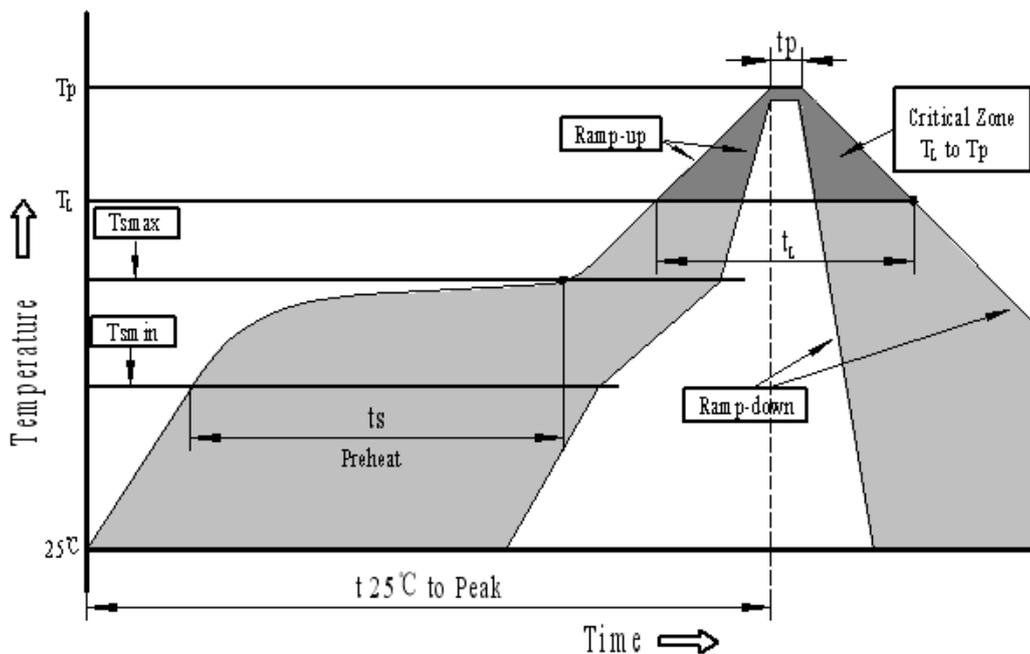
Unit:mm Tolerance : ± 0.5 mm

D. RECOMMEND DRIVING CIRCUIT



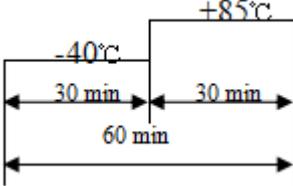
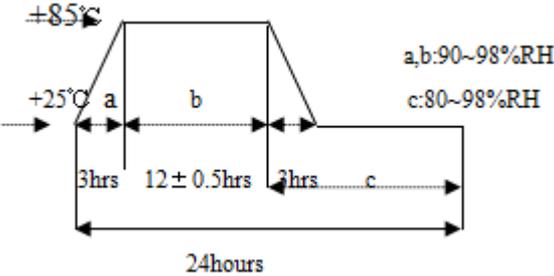
Recommended land pattern

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. RELIABILITY TEST

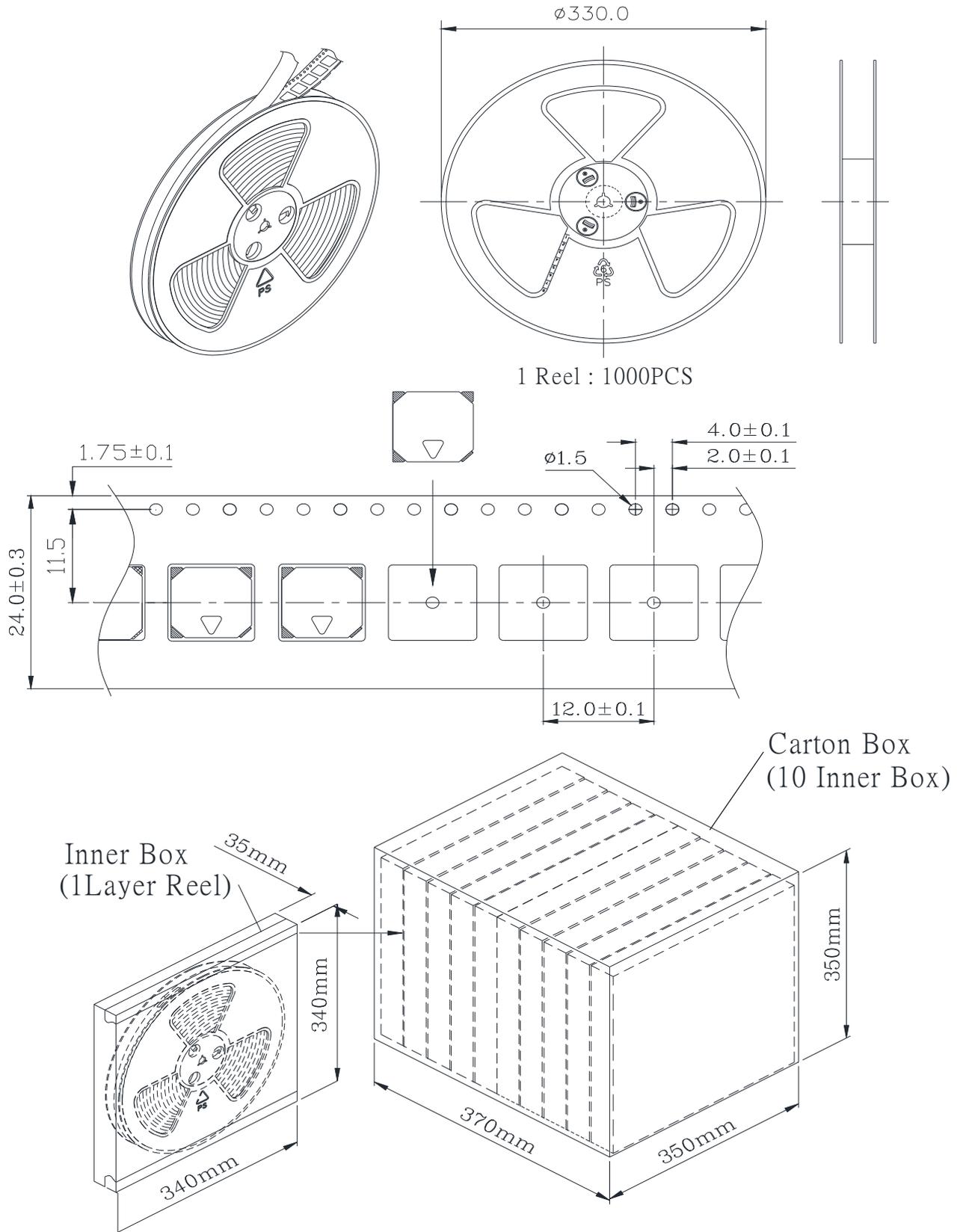
NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with +85°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
2	Low Temperature Test (Storage)	After being Placed in a chamber with -40°C 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 
4	Temp./Humidity Cycle	The part shall be subjected to 10 cycle shall be 24 hours and consist of 
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	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.
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +245 ± 5°C for 3 ± 1 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 each terminal in axial direction for 10 seconds. No visible damage and cutting off.
9	Operating life test	The part shall be subjected to 96 hours at room temperature

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



Inner Box	340mmx340mmx35mm	1x1000PCS=1000PCS
Carton Box	350mmx350mmx370mm	10x1000PCS=10,000PCS

