



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-M13071B-0524

客户料号

PART NO : _____

审核	秦皓	主办	唐俐雅 Aug.30,2018
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客户承认栏			
承认		拒收	

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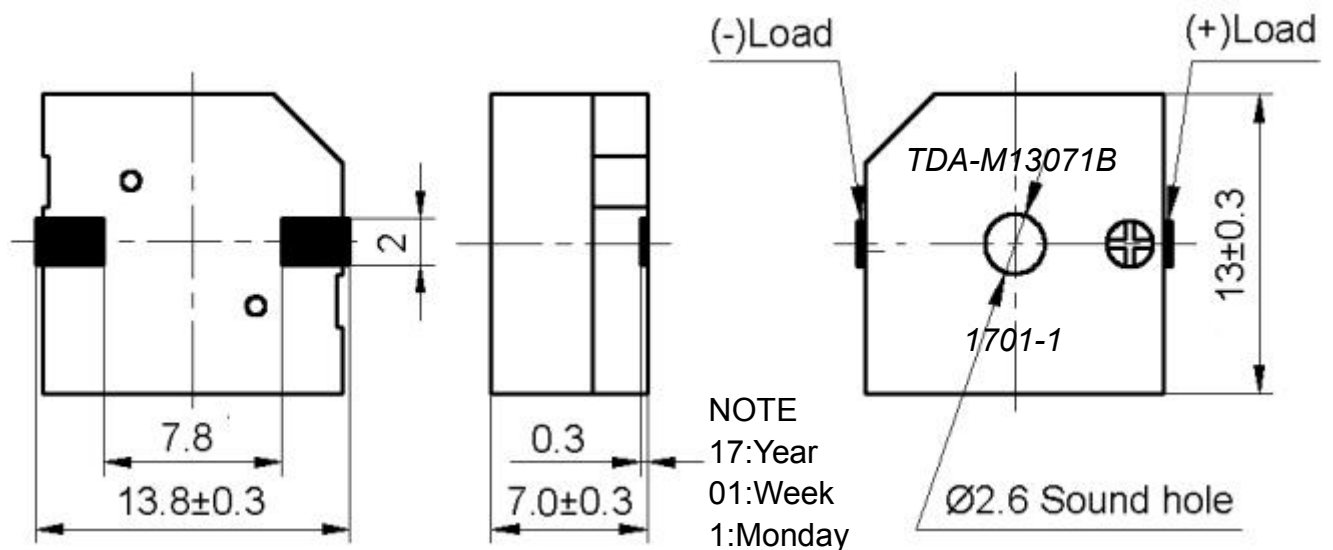
A. SCOPE

This specification applies magnetic buzzer, **TDA-M13071B-0524**

B. SPECIFICATION

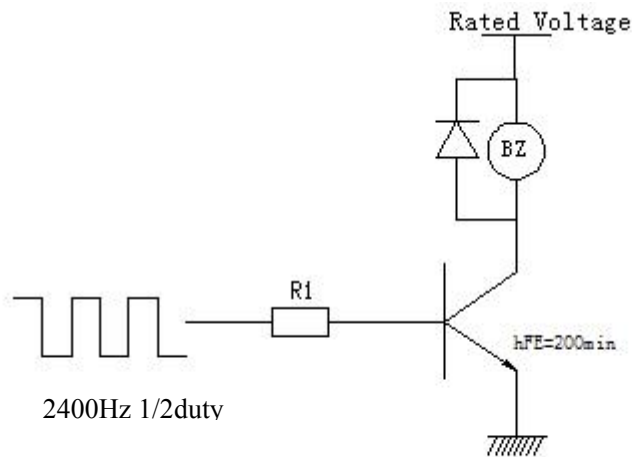
No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2400	Square Wave
2	Operating Voltage	Vdc	4.0 ~ 7.0	
3	Rated Voltage	Vdc	5.0	
4	Current Consumption	mA	MAX. 50	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 90	at 10cm at Rated Voltage
6	Coil Resistance	Ω	$45 \pm 10\%$	
7	Operating Temperature	$^{\circ}\text{C}$	-40 ~ +85	
8	Storage Temperature	$^{\circ}\text{C}$	-40 ~ +90	
9	Dimension	mm	13x13x H7.0	See appearance drawing
10	Weight (MAX)	gram	2	
11	Housing Material		LCP	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING

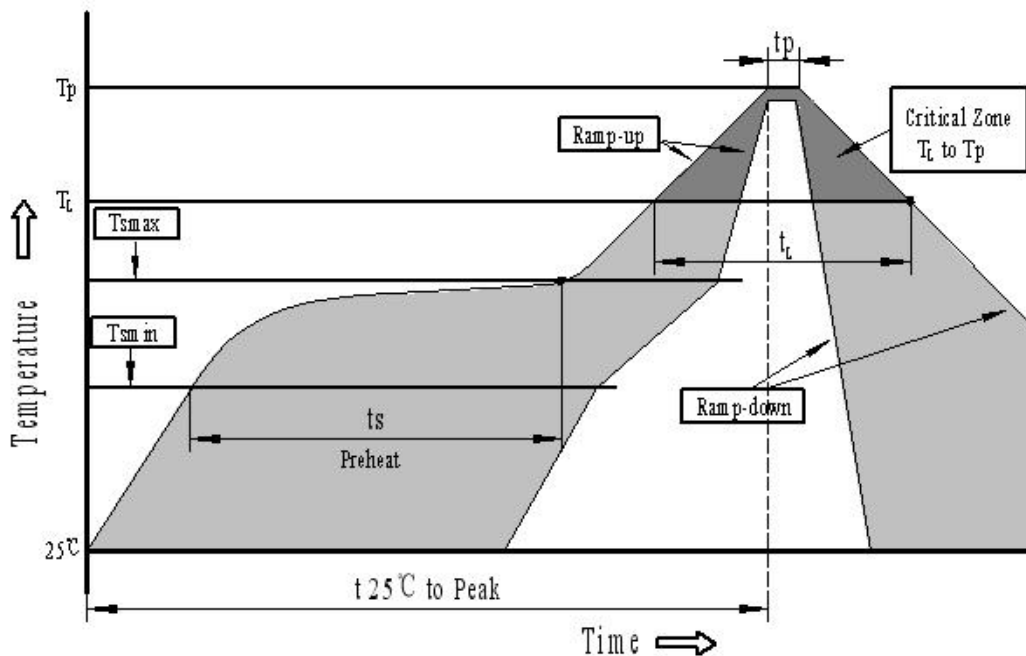


Unit:mm Tolerance : ± 0.5 mm

D. RECOMMEND DRIVING CIRCUIT

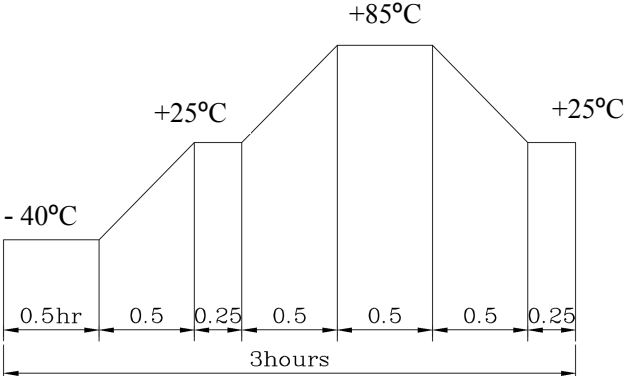


E. RECOMMENDED TEMP. PROFILE FOR REFLOW OVEN



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)	<p>After being placed in a chamber with 90 °C for 96 hours and then being placed in normal condition for 2 hours.</p> <p>Allowable variation of SPL after test: 10dB.</p>
2	Low Temperature Test (Storage)	<p>After being Placed in a chamber with -40 °C for 96 hours and then being placed in normal condition for 2 hours.</p> <p>Allowable variation of SPL after test: 10dB.</p>
3	Humidity Test	<p>After being Placed in a chamber with 90-95% R.H. at 40 °C for 96 hours and then being placed in normal condition for 2 hours.</p> <p>Allowable variation of SPL after test: 10dB.</p>
4	Temperature Cycle Test	<p>The part shall be subjected to 5 cycles. One cycle shall be consist of:</p>  <p>Allowable variation of SPL after test: 10dB.</p>
5	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>
6	Vibration Test	<p>After being applied vibration of amplitude of 1.5mmwith 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>
7	Solderability Test	<p>Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +245 °C for 3 1 seconds .</p> <p>90% min. lead terminals shall be wet with solder (Except the edge of terminals).</p>
8	Terminal Strength Pulling Test	<p>The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds.</p>

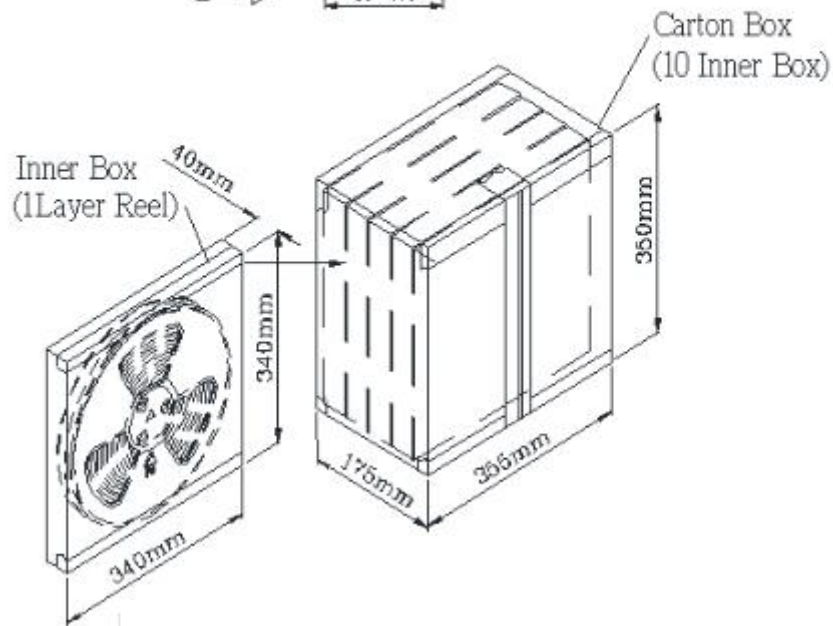
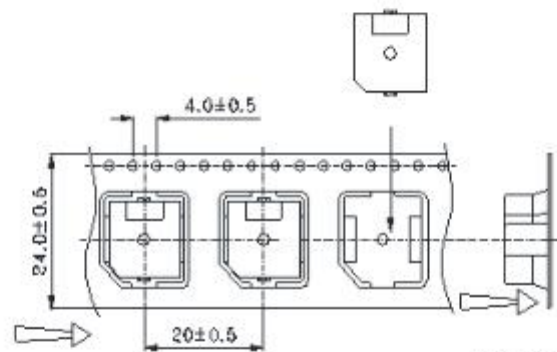
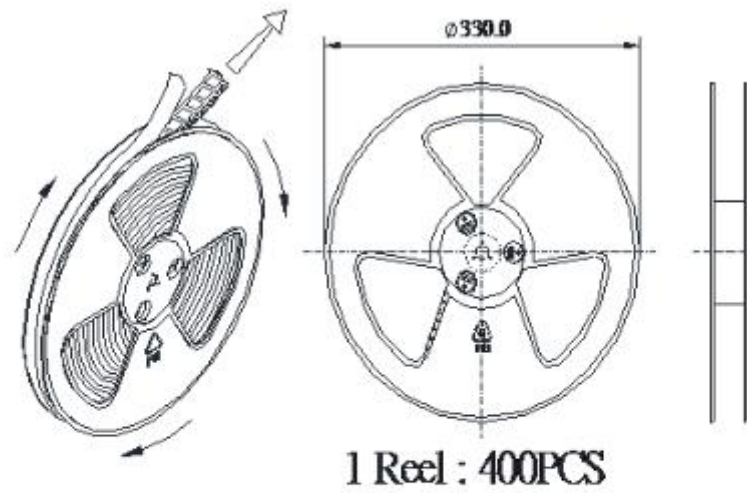
		No visible damage and cutting off.
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TEST CONDITION

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	340mm*340mm*40mm	1*400PCS=400PCS
Carton Box	350mm*350mm*175mm	10*400PCS=400PCS

