

请承认书

Version No.: <u>V2.0</u>

常州	昊	翔	电	子 >	有	况 (公豆	司
Changzhou HaoXiang Electronic Co., LTD								
客户名称								
CUSTOM	ER NAM	ΛER:						
产品。	名 称							
COMMOD	ITY	•	SMD	MAGNE	ETIC E	BUZZE	ER	
产品型	型 号							
MODEL N	0	:	TD	A-M13	071B-	0524	-	
客户制	斗 号							
PART NO		:						
		-						
审核		秦皓		主	办	唐	利雅 Au	ıg.30,2018
	客	户	序	认认	栏			
承	认				拒		收	
常州		翔	电	子	有	限	公	司
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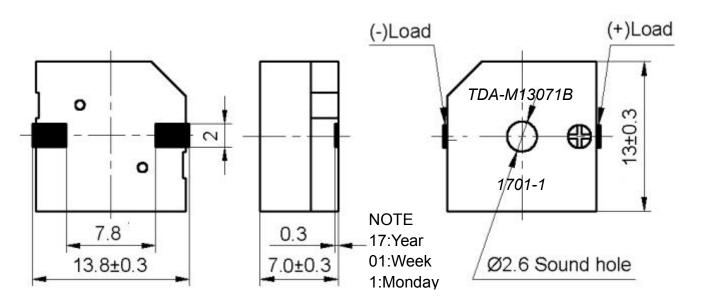
A. SCOPE

This specification applies magnetic buzzer, TDA-M13071B-0524

B. SPECIFICATION

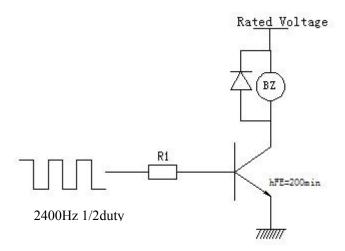
No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2400	Square Wave
2	Operating Voltage	Vdc	4.0 ~ 7.0	
3	Rated Voltage	Vdc	5.0	
4	Current Consumption	mA	MAX. 50	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 90	at 10cm at Rated Voltage
6	Coil Resistance	Ω	45±10%	
7	Operating Temperature	$^{\circ}\!\mathbb{C}$	-40 ~ +85	
8	Storage Temperature	$^{\circ}\!\mathbb{C}$	-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

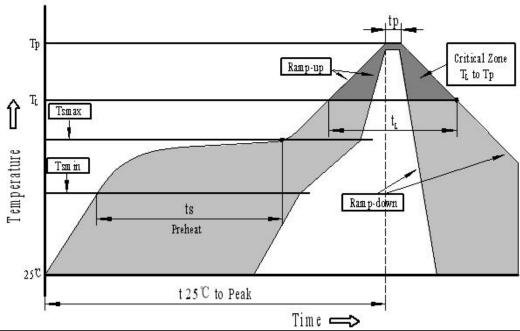


Unit:mm Tolerance: ±0.5mm

D. RECOMMEND DRIVING CIRCUIT



E.RECOMMENDED TEMP. PROFILE FOR REFLOW OVEN



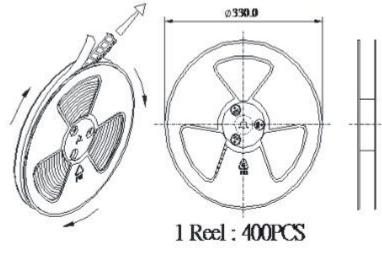
Profile Feature	Pb-Free Assembly
Average ramp-up rate(T _L to Tp)	3°C/second max.
Preheat	
-Temperature Min.(Ts _{min})	150℃
-Temperature Min.(Ts _{max})	200℃
-Temperature Min.(ts)	60∼180 seconds
Ts _{max} to T _L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature(T∟)	217℃
-Time(T _L)	60∼150 seconds
Peak temperature(Tp)	245℃+0/-5℃
Time within 5°C of actual Peak temperature (tp)	6 seconds max.
Ramp-down Rate	6°C/second max.
Time 25℃ to Peak Temperature	8 minutes max.

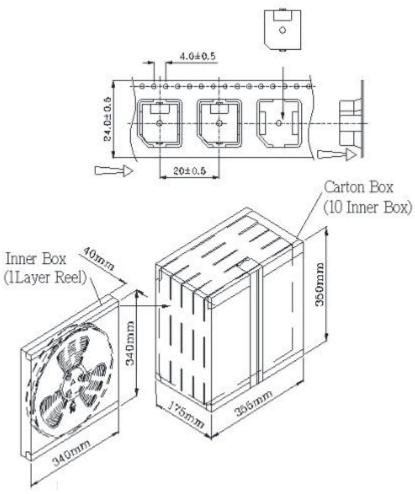
F. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT				
1	High Temperature Test (Storage)	After being placed in a chamber with 90 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.				
4	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of: +85°C +25°C +25°C +25°C 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	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 . 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. 2: No				
	No visible damage and cutting off.				
	T CONDITION) D	
Stand	Standard Test Condition : a) Temperature : $+5 \sim +35^{\circ}$ C b) Humidity : $45-85\%$ c) Pressure : $860-1060$ mb Judgment Test Condition: a) Temperature : $+25\pm2^{\circ}$ C b) Humidity : $60-70\%$ c) Pressure : $860-1060$ mb				
Juug	intent rest condition: a) is	emperature : 120±2 C	b) Hamaity : 00-7070	c) i ressure . 000-1000mbai	

G. PACKING STANDARD





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

H.NOTE CAUTIONS

- **a.** Please pay attention in welding process, don't let soldering flux invasion into the sound chamber , otherwise flux can cause defect conduction •
- b. 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.
 - **C**. This product is not dustproof, not waterproof, not resistance to dropping.

I.NOTICE ON PRODUCT STORAGE

a. Please store the products in room where the temperature / humidity is stable. And avoid such places where there are large temperature changes. Please store the products under the following conditions :

Temperature: -10 to +40 (degree C)

Humidity: 15 to 85% R.H.

- b. Expire date (Shelf life) of the products is 6 months after delivery under the conditions of a sealed and an unopened package. Please use the products within 6 months after delivery. If you store the products for a long time (more than 6months), use carefully because the products may be degraded in the solder-ability and/or rusty. Please confirm solder-ability and characteristics for the products regularly.
- C. Please use the products immediately after the package is opened, because the characteristics may be reduced in quality, and/or be degraded in the solder-ability due to storage under the poor condition.

J.REVISION

No.	DATE	DESCRIPTION	REMARK	VERSION
1	Jan.9,2017	Initial condition	TDA-M13071B-0524	V1.0
2	Aug.30,2018	Version upgrade	TDA-M13071B-0524	V2.0
3				
4				