

请承认书

Version No.: V2.0

常州	昊 翔	电	子 有	限	公	司	
Changzho	u HaoXi	ang E	lectro	nic (Co., l	LTD	
客户名	分 称						
CUSTOME	R NAMER :					_	
产品名	分						
COMMODITY : SMD MAGNETIC BUZZER							
产品型	2号						
MODEL NO	MODEL NO : TDA-M50020-0340						
客户彩	↓ 号						
PART NO	:					_	
		ı İ					
审核	秦皓		主	办	唐俐雅(Jul. 11, 2018	
	客户	承	认	栏			
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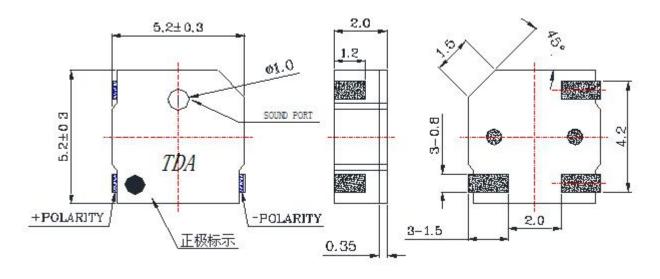
A. SCOPE

This specification applies magnetic buzzer, TDA-M50020-0340

B. SPECIFICATION

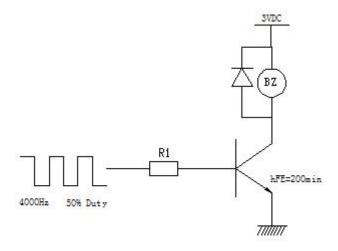
No.	Item	Unit	Specification	Condition	
1	Oscillation Frequency	Hz	4000	square wave	
2	Operating Voltage	Vo-p	2~4		
3	Rated Voltage	Vo-p	3.0		
4	Current Consumption	mA	MAX.100	at Rated Voltage	
5	Sound Pressure Level	dB	MIN. 75	at 10cm, Rated Voltage, 1/2duty	
6	Coil Resistance	Ω	12±3		
7	Operating Temperature	$^{\circ}$	-20 ~ +70		
8	Storage Temperature	$^{\circ}$ C	-30 ~ +80		
9	Dimension	mm	5.2x 5.2 x H2.0	See appearance drawing	
10	Weight (MAX)	gram	0.1		
11	Housing Material		LCP(Black)		
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing	
13	Environmental Protection Regulation		RoHS		

C. APPEARANCE DRAWING

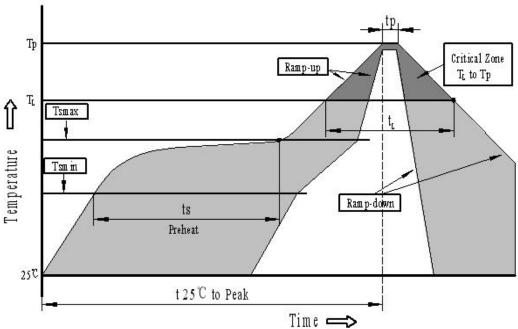


Unit:mm Tolerance: ±0.5mm

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 _L)	217 ℃
-Time(T _L)	$60{\sim}150$ seconds
Peak temperature(Tp)	245℃+0/-5℃
Time within 5℃of actual Peak temperature (tp)	6 seconds max.
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

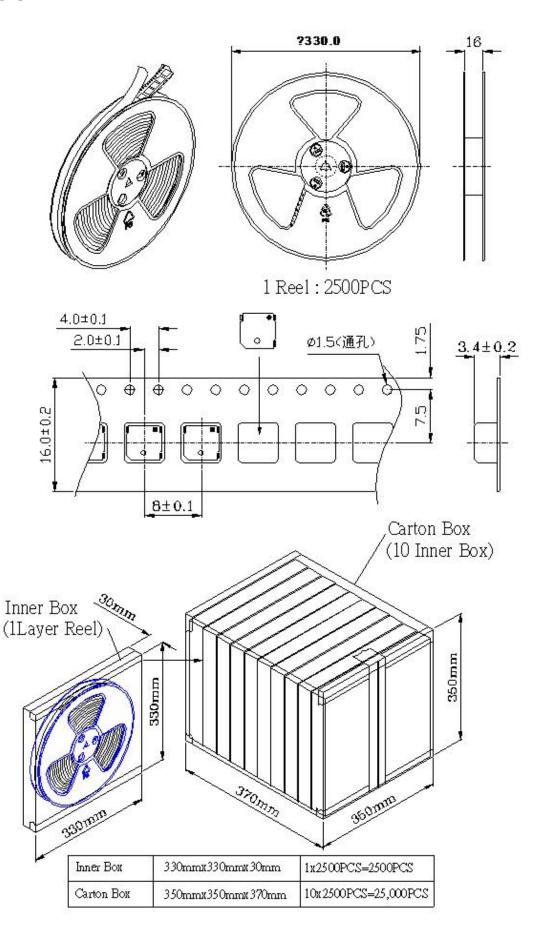
F. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT			
1	High Temperature Test (Storage)	After being placed in a chamber with 80±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 -30±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 : +80°C +25°C +25°C -30°C 0.5 hr 0.5 0.25 0.5 0.5 0.5 0.25 3hours 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 +300±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.			

TEST CONDITION

Standard Test Condition : a) Temperature : $+5 \sim +35^{\circ}$ C b) Humidity : 45-85% c) Pressure : 860-1060mbar **Judgment Test Condition:** a) Temperature : $+25\pm2^{\circ}$ C b) Humidity : 60-70% c) Pressure : 860-1060mbar

G. PACKING STANDARD



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	2016.11.29	Initial condition	TDA-M50020-0340	V1.0
2	Jul.11,2018	Version upgrade	TDA-M50020-0340	V2.0