

请承认书

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

	常	計州	昊	翔	电	子	有	限	公	司	
	Cho	angzho	u H	aoXid	ang	Elect	ronic	Co	., L	.TD	
	客	产户分	名 称								
	CL	JSTOM	ER NA	MER	<u> </u>						
	产	品名	名 称								
	C	DMMOD	ITY	:	SMI	MAGN	NETIC	BUZZ	ZER		
) The	品是	型 号								
	M	ODEL N	10	:	TD	A-M1	4011-	-0527	7		
	客	子户米	斗 号								
	P/	ART NO		:							
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	审	核		秦皓		主	办	Ą	事 俐雅 J	an.7,2019	_
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	常	州	昊	翔	电	子	有	限	公	司	
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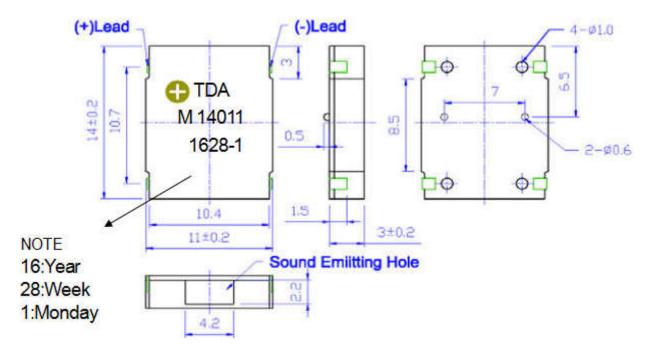
A. SCOPE

This specification applies magnetic buzzer, TDA-M14011-0527

B. SPECIFICATION

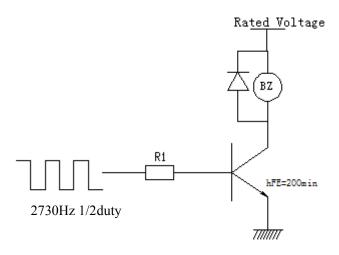
No.	Item	Unit	Specification	Condition	
1	Oscillation Frequency	Hz	2730	Square Wave	
2	Operating Voltage	Vo-p	3.0 ~ 7.0		
3	Rated Voltage	Vo-p	5.0		
4	Current Consumption	mA	MAX. 80	at Rated Voltage	
5	Sound Pressure Level	dB	MIN. 90	at 10cm at Rated Voltage	
6	Coil Resistance	Ω	43±3		
7	Operating Temperature	$^{\circ}\!$	-30 ~ +75		
8	Storage Temperature	$^{\circ}$	-40 ~ +85		
9	Dimension	mm	14x11x H3.0	See appearance drawing	
10	Weight (MAX)	gram	2		
11	Housing Material		LCP(Black)		
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing	
13	Environmental Protection Regulation		RoHS		

C. APPEARANCE DRAWING

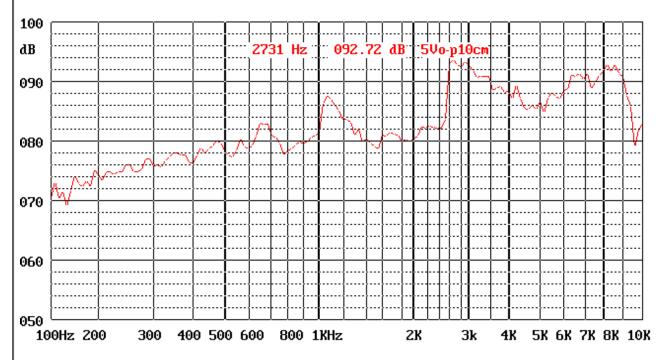


Unit:mm Tolerance: ±0.5mm

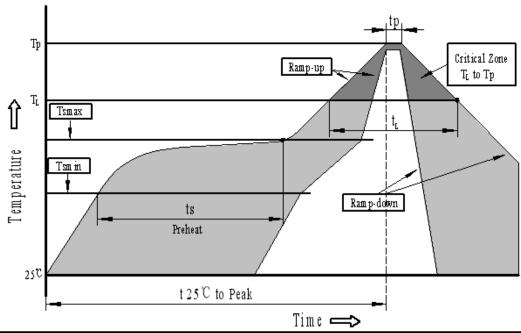
D. RECOMMEND DRIVING CIRCUIT



E.FREQUENCY CURVE



F.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°C+0/-5°C
Time within 5℃of actual Peak temperature (tp)	6 seconds max.
Ramp-down Rate	6℃/second max.
Time 25°C to Peak Temperature	8 minutes max.

G. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT				
1	High Temperature Test (Storage)	After being placed in a chamber with85 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: +75°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 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

H. PACKING STANDARD 4.0 ± 0.1 1.75 \pm (0.3 2.0 ± 0.1 16 ± 0.1 3.8 ± 0.1 ф1.5 min 4.6 ± 0.1 11.5 \pm 0.1 max. 30.0 24.5 ± 0.5 \$13.0±0.5 Tapping Direction NO Components NO Components Components TOP 400mm (26PCS) min 150mm (10PCS) min Cover Tape Empty component Start Pockets sealed User Direction of Feed With cover tape

I.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.

J.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.

K.REVISION

DATE	DESCRIPTION	REMARK	VERSION
2015.08.12	Initial condition	TDA-M14011-0527	V1.0
2016.07.20	Add laser on product	TDA-M14011-0527	V1.1
2016.10.11	Updated the mark	TDA-M14011-0527	V1.2
Jan.7,2019	Version upgrade	TDA-M14011-0527	V2.0
	2015.08.12 2016.07.20 2016.10.11	2015.08.12 Initial condition 2016.07.20 Add laser on product 2016.10.11 Updated the mark	2015.08.12 Initial condition TDA-M14011-0527 2016.07.20 Add laser on product TDA-M14011-0527 2016.10.11 Updated the mark TDA-M14011-0527