

请承认书

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

常州	是 翔 电	引 子 有『	艮 公 司
Changzho	u HaoXian	g Electronic	Co., LTD
客户名	3 称		
CUSTOME	R NAMER :_		
产品名	3 称		
COMMOD	IТУ : <u>s</u>	MD MAGNETIC	BUZZER
产品型	型 号		
MODEL N	o :	TDA-M90045	-0527
客户米	斗 号		
PART NO	:		
审核	秦皓	主办	丁华 Sept.13,2018
	客户	承 认 栏	
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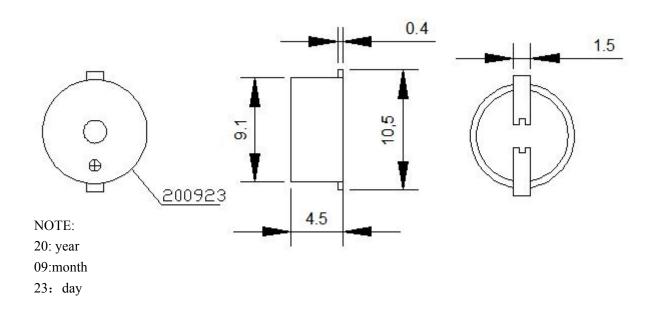
A. SCOPE

This specification applies magnetic buzzer, TDA-M90045-0527

B. SPECIFICATION

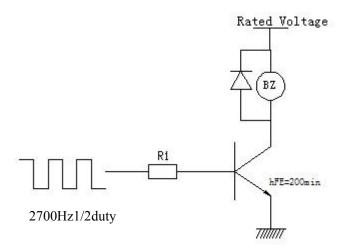
No.	ltem	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2700	Square Wave
2	Operating Voltage	Vo-p	4~7	
3	Rated Voltage	Vo-p	5	
4	Current Consumption	mA	MAX. 100	at 5Vo-p, 2700Hz, 1/2 duty
5	Sound Pressure Level	dB	MIN. 88	at 10cm at 5Vo-p, 2700Hz,1/2 duty
6	Coil Resistance	Ω	25±3	
7	Operating Temperature	$^{\circ}$	-20-+85	
8	Storage Temperature	$^{\circ}$	-30-+90	
9	Dimension	mm	Ф9.1x H4.5	See appearance drawing
10	Weight (MAX)	gram	0.8	
11	Housing Material		LCP	
12	Leading Pin		Tin Plated Brass (Au)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING

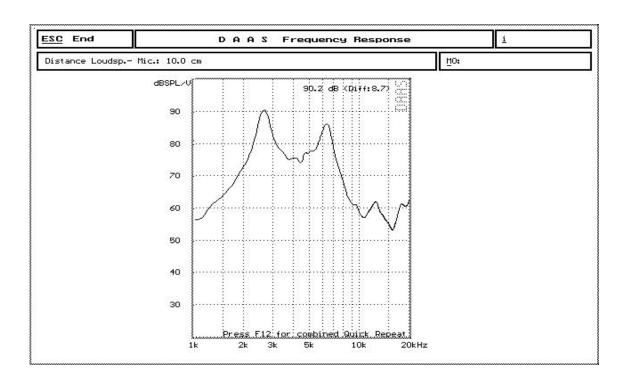


Unit: \pm 0.05mm

D. RECOMMEND DRIVING CIRCUIT



E.FREQUENCY CURVE



F.RELIABILTY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT		
1	High Temperature Test (Storage)	After being placed in a chamber with +90°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°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	Temp./Humidity Cycle test	The part shall be subjected to 5 cycle. One cycle shall be consist of: +85°C +25°C -20°C -20°C -20°C -25°C -25°C -25°C -25°C -25°C -25°C -25°C -26°C -26°C		
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 10Hz to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours ,total 6 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	SolderingHeat Resistance	The product is followed the reflow temperature curve to test its reflow soldering heat resistance.		
9	Terminal Strength Pulling Test	Lead pads shall be soldered on the pc board,the force of 9.8N(1.0kg) is applied to each terminal in axial direction for10 seconds. No visible damage and cutting off.		

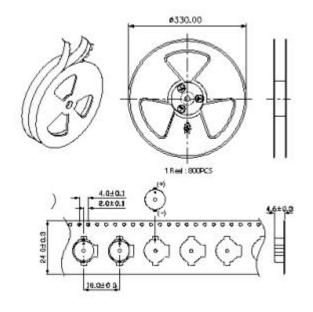
G.RELIABILITY TEST

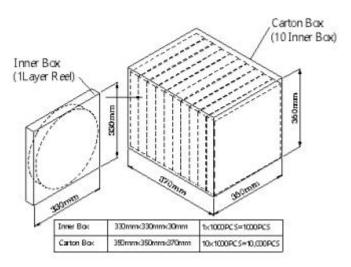
No.	Item	Test condition	Evaluation standard	
		1.Ordinary temperature	After the test the part	
1		The part shall be subjected to 96 hours at room	shall meet specifications	
	Operating life	temperature with 5V,2700Hz applied.	without any degradation in	
	test	2. High temperature	appearance and	
		The part shall be subjected to 72 hours at +85 °C	performance except SPL.	
		with 5V,2700Hz applied.	after 4 hours at +25℃,The	
		3.Low temperature	SPL should be in \pm	
		The part shall be subjected to 72 hours at -20 °C	10dBA compared with	
		with 5V,2700Hz applied.	initial one.	

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





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

No.	DATE	DESCRIPTION	REMARK	VERSION
1	Sept,13.2018	Initial condition	TDA-M90045-0527	V2.0