

请承认书

Version No. ∶ <u>V2.0</u>

常州	昊 翔 电	子有限	公 司
Changzho	u HaoXiang	Electronic	Co., LTD
客户名	分称		
CUSTOME	R NAMER :		
产品名	3 称		
COMMODI	TTY :	SMD Speak	er
产品型	号号	•	
MODEL NO	:	TDA-M1010KC8D	40
客户彩	4号		
PART NO	:		
			1
审核	秦皓	主 办	唐俐雅 Nov.14,2018

	客	户	承	认	栏		
承	认				拒	收	

常	州	昊	美羽	电	子	有	限	公	司
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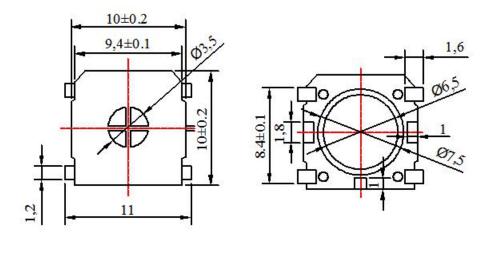
A. MODEL: TDA-M1010KC8D40

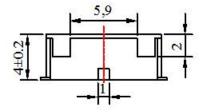
B. SPECIFICATION

Test condition: Temperature: 15~35°C Related Humidity:25~75% (GB/T9396-1996)

No.	Item	Specification	Condition	
1	Dimension	10 x 10 x H4.0mm		
2	Weight	1.2±0.2g		
3	Impedance	8±15%Ω	At 20 ℃	
4	DC Resistance	7.6±15%Ω	At 20℃	
5	Output Sound Pressure Level	86±3dB(0.1M,1W)	Average at 1.6k,2.0k,3.2kHz	
6	Response Frequency	1700±15%Hz		
7	Frequency Range	F0~20K	Average SPL 10dB .	
8	Distortion	10% Maximum	At 1.0kHz, 0.1W,0.1m	
9	Magnet	NdFeB		
10	Power Rating	Normal: 1.0W Maximum: 1.2 W	Sine Wave	
11	Operating temperature	-30~ +85℃		
12	Storage Temperature	-40∼+105℃		
13	Abnormal Sound test	Must be Normal Tested By 2.83Vrms	Sine Wave, no buzzes and battles	
14	RoHS	The Speaker is RoHS compliant.		

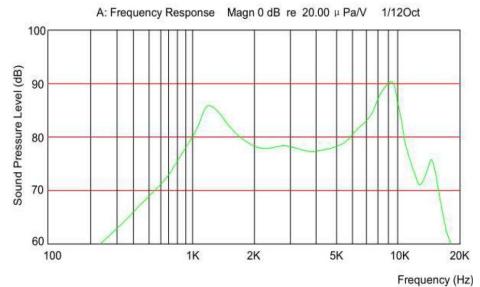
C. APPEARANCE DRAWING





Unit: mm Tolerance : ± 0.2mm

D.FREQUENCY RESPONSE



E. MEASURING METHOD(SPEAKER MODE)

E-1.Test Condition

(a)STANDARD:

Temperature : $15 \sim 35^{\circ}$ C, Relative humidity : $45\% \sim 85\%$,

Atmospheric pressure: 860mbar to 1060mbar

(b)JUDGEMENT:

Temperature : $20\pm3^{\circ}$ C, Relative humidity : $60\% \sim 70\%$,

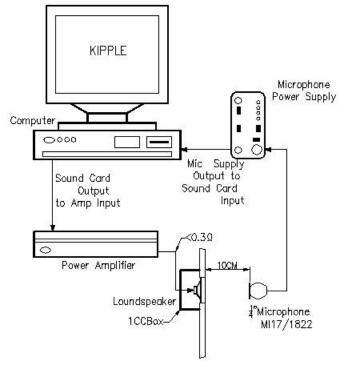
Atmospheric pressure: 860mbar to 1060mbar

E-2.Standard Test Fixture
1.Input Power:0.1W(0.89V)

2.Zero Level : -dB 3.Mode : SPEAKER

4.potentiometer Range: 50dB

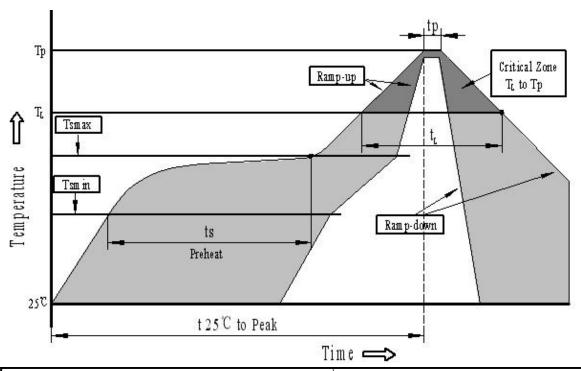
5.Sweep Time: 0.5sec



F. RELIABILTY TEST

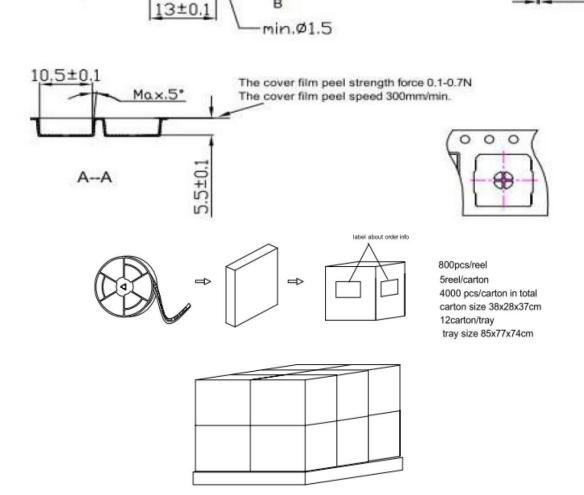
No.	Item	Condition	Evaluation standard
1	Operating test	Must be normal at 0.2W	After each test, receivers
2	Load test	1.0 W White noise is applied for 96hours	should be measured after 2hrs exposed in normal
3	High temperature test	Keep sample at 105 ±3 °C for 96 hours	temperature, all measurements should be in
4	Low temperature test	Keep sample at -40±3°C for 96 hours	±3dB deviation than initial measurement.
5	Humidity test	Keep sample with 90-95% R.H. at 40 \pm 3°C for 96 hours	After each test all specification must be
6	Drop test	Drop sample in box on 20cm thickness wood board 3 directions for 10 times, Height: 75cm.	

G. 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∼150 seconds		
Peak temperature(Tp)	245°C+0/-5°C		
Time within 5°C of actual Peak temperature (tp)	6 seconds max.		
Ramp-down Rate	6°C/second max.		
Time 25°C to Peak Temperature	8 minutes max.		

H. PACKING STANDARD ★ Dimensions of carrier tape 4±0.1 2±0.1 B-B 0.3±0.05



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	2016.08.12	Initial condition	TDA-M1010KC8D40	V1.0
2	Nov.14,2018	Version upgrade	TDA-M1010KC8D40	V2.0