

请承认书



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旲 常 电 子 有 公 州 翔 限 司 子 常 公 有 限 州 声 翔 申 司 常州公司: 南通工厂: 江苏省常州市戚区潞城镇富民路 286 号 江苏如皋市郭元镇工业园辰翔工业区 TEL:86-519-8363089 13585451311 TEL:86-513-87910588 871919168 FAX:86-513-87915598 FAX:86-519-88353844 E-mail: <u>sales@tda-buzzer.com</u> <u>sales2@tda-buzzer.com</u>

# A. MODEL: TDA-T1612-40P-AO

# **B. SPECIFICATION**

No.	ltem	Specification	Condition
1	Structure	Open	
2	Using Method	Transmitter	
3	Nominal Frequency	40±2KHz	
4	Transmitting Sound Pressure Level	Min. 110dB	at 40KHz (0dB=0.02mPa) See Fig.1 (10V/30cm/sine wave)
5	Capacitance	2400 ± 30%pF	at 1kHz
6	Directivity	80deg	
7	Allowable input voltage	30Vр-р	
8	Operating temperature	- <b>30℃~+70℃</b>	
9	Material	AL	
10	Terminal	Pin Type	See appearance drawing
11	Environmental RoHS Protection Regulation		

## C. MECHANICAL AND VIBRATION TEST

No.	ltem	Test condition	Evaluation standard
1	Shock Test	Acceleration : sine 980 m/s2 (100G) Direction : 3 directions Shock time : 3 times / directions	The variation of the Sound Pressure Level at 40kHz is within 3dB compared with initial figures at 25 degC after following test conditions
2	Vibration Test	Vibration frequency : 10 to 70 Hz Sweep Period : 5 min. Acceleration : 43.12 m/s2 (4.4G) Directions : 3 directions Time : 50 min. / direction	The variation of the S.P.L at 40kHz is within 3dB compared with initial figures at 25 degC after following test conditions
3	Drop Test	Height : 1 meter onto concrete floor Times : 10 times	The variation of the S.P.L at 40kHz is within 6dB compared with initial figures at 25 degC after following test conditions
4	Pull Strength	There should be no substantial damage after 2.45 N of force.	No interference in operation

## **D. ENVIRONMENTAL TEST**

No.	Item	Condition	Evaluation standard	
1	High Temperature	After being placed in a chamber at $+70 \pm 3$ degC for 36 hours.	The variation of the S.P.L at 40kHz is within 3dB compared with initial	
2	Low Temperature	After being placed in a chamber at $-30 \pm 3$ degC for 36 hours.	figures at 25 degC in 24 hours after following test conditions	
3	Humidity	After being placed in a chamber at +60 ± 3 degC and 90~95% R.H relative humidity for 36 hours.	The variation of the S.P.L at 40kHz is within 6dB compared with initial figures at 25 degC in 24hours after following tes conditions	
4	Temperature Cycle test	Temperature : +70 $\pm$ 3 degC, 1 hour -30 $\pm$ 3 degC, 1 hour Cycles : 10 cycles		

#### **TEST CONDITION**

Standard Test Condition : a) Temperature : +5 ~ +35°C b) Humidity : 45-85% c) Pressure : 860-1060mbar **Judgment Test Condition:** a) Temperature : +25±2°C b) Humidity : 60-70% c) Pressure : 860-1060mbar

# E. MEASURING METHOD(SPEAKER MODE)



## **F.APPEARANCE DRAWING**



## Unit: mm Tolerance: ±0.5mm

## G. FREQUENCY CURVE



### **H. 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.

No.	DATE	DESCRIPTION	REMARK	VERSION
1	Sept.17,2020	Initial condition	TDA-T1612-40P-AO	V2.0

## I. REVISION