



# **Product Specification**

## Ningbo East Electronics Limited

NO. 88 East Jinhui Road, Yinzhou Ningbo 315100, P.R. China <a href="http://www.east-mingtao.com">http://www.east-mingtao.com</a>

Product Name:	Ultrasonic Annunciator
Part Number:	W-05
Version:	1.02
Date:	2019-10-16
Note:	

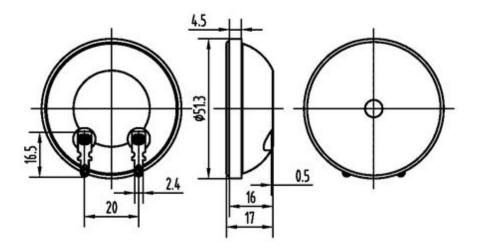
## East is an ISO 9001, IATF16949 and ISO 14001Certified Company

### **Revision History**

Rev.	Description	Author/Date	Checked By	Approver
1.02	Quality management system revised	汤礼东 2019-10-16	吕文斌	王建成
1.01	Quality Certificate Symbol revised	刘宁 2015-2-12	汤礼东	王建成
1.0	Released	汤礼东 2012-1-30	张春雷	王建成

#### 1. Part Number W-05

#### 2. Dimension Drawing (Unit: mm)



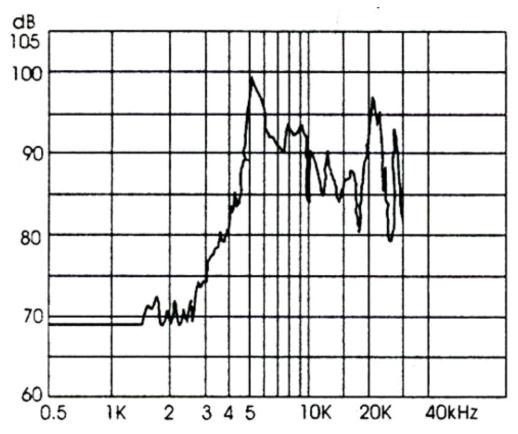
#### 3. Specification

No.	Item	Specification
3-1	Min. Sound Pressure Level	95dB/22±1kHz/2.83Vrms sine wave /50cm
3-2	Allowable Input Voltage	30Vp-p
3-3	Capacitance	110±30%nF(At 120Hz)
3-4	Resonant Frequency	22±1.0kHz
3-5	Operating Temperature	-20~+70°C
3-6	Case Material /Color	ABS/Black
3-7	Weight	8.5g
3-8	Pin Strength	More than 10N

#### **NOTES:**

Test should be made under the conditions of room temperature  $(20\pm10^{\circ}\text{C})$ , normal humidity  $(60\pm20\%)$  and normal atmospheric pressure. In this case, however, that the judgment is questionable, the test conditions are to be changed to room temperature  $20\pm2^{\circ}\text{C}$ , relative humidity  $60\sim70\%$  and normal atmospheric pressure

## **4.**Typical Frequency Response Curve



**Note:** Input Voltage 2.83Vrms sine wave

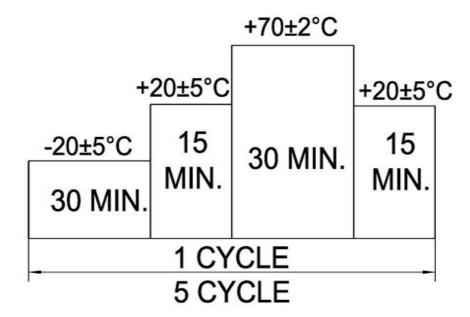
Distance 50cm

# 5. Reliability Test

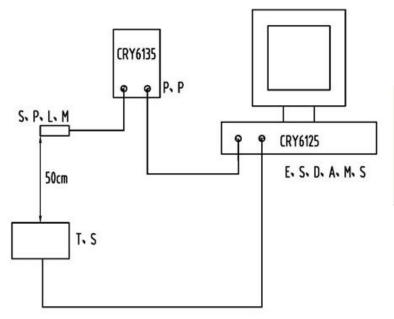
5-1 T	Operating Temperature Storage in high	-20~+70°C	Sound pressure level	
<b>3-</b> 2	Storage in high		1	
"	temperature	Storage in +70°C test box 96 hours then exposed to the room temperature for 2 hours	initial value ±10dB	
5-3	Storage in low temperature	Storage in -20°C test box 96 hours then exposed to the room temperature for 2 hours	Capacitance value ±20%	
5-4	Life test in the room temperature	Operate the product continuously 5 seconds on 5 seconds off 300 hours at rated voltage		
7-7	Temperature / humidity cycle test	Storage in +40°C, 93±3%RH test box 96 hours then exposed to the room temperature for 2 hours		
5-6 a	Temperature (high and low) cycle test	Conduct the test for 5 cycles without applying power then expose to the room temperature for 2 hours.(See Figure 5-6)	3/5	

5-7	Vibration test	Conduct the test for the directions of X Y and Z for 0.5 hour each (total 1.5 hours). To-and Fri sweep time(from 10 to 55Hz and then 55 to 10) under single amplitude of 0.75mm is 3 minute, then expose to the room temperature for 2 hours	
5-8	Soldering heat resistance test	Dip the connecting pins in soldering at 260±5°C for 10±1 seconds	
5-9	Test of soldering	Dip the connecting pins in soldering at 230±5°C for 3±0.5 seconds	Solder shall be attached around over 95% of the dipped portion

Figure 5-6



#### **6. Electrical Testing Method**



S.P.L.M	Sound Pressure Level Meter
T.S	Testing Sample
P.P	Preamplifier Power
E.S.D.A.M.S	Electric Sound Device Analyzer Meter Series

#### 7. Packing Information

Packing: 720 pcs per export carton Carton Size: 47× 30.5× 31 cm

G. Weight: 7.7 kgs N. Weight: 6.1 kgs