



Product Specification

Ningbo East Electronics Limited

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| Product Name: | Utrasonic Annunciator |
|---------------|-----------------------|
| Part Number: | W 05 |
| Ver si on: | 1. 02 |
| Dat e: | 2019- 10- 16 |
| Not e: | |

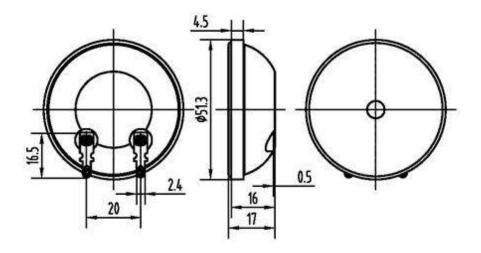
East is an ISO 9001, IATF16949 and ISO 14001Certified Company

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)



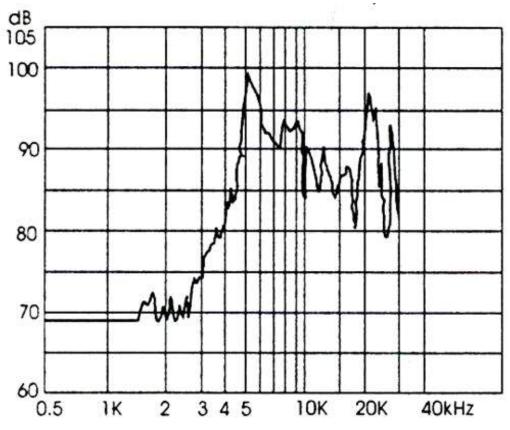
3. Specification

| 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

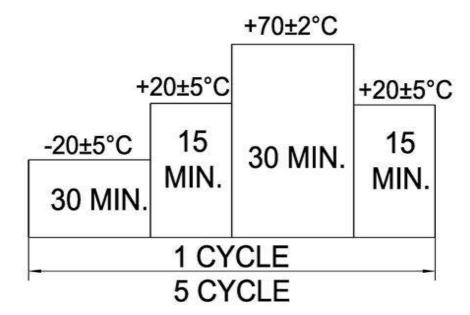
Distance 50cm

5. Reliability Test

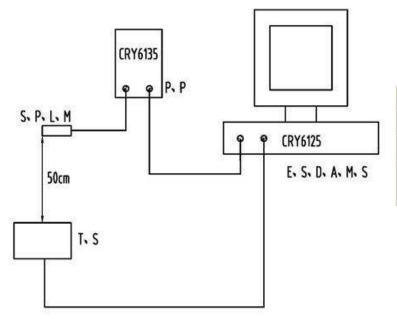
| 5-2 Storage in high temperature Storage in +70°C test box 96 hours then exposed to the room temperature for 2 hours | No. | Item | Method of Test | Tolerance after Testing |
|--|-----|---------------------|--|----------------------------|
| Storage in high temperature Storage in +70°C test box 96 hours then exposed to the room temperature for 2 hours | 5-1 | 1 0 | -20~+70°C | Sound pressure level |
| temperature Storage in 20 °C test box 56 hours then exposed to the foom temperature ±20% Life test in the room temperature Operate the product continuously 5 seconds on 5 seconds off 300 hours at rated voltage Temperature Storage in +40°C, 93±3%RH test box 96 hours then exposed | 5-2 | 0 | 1 | initial value ±10dB |
| temperature 300 hours at rated voltage Temperature Storage in +40°C, 93±3%RH test box 96 hours then exposed | 5-3 | | 1 | Capacitance value ±20% |
| 1 1-1 - | 5-4 | | 1 | |
| | 5-5 | * | 1 | |
| Temperature (high and low) cycle test | | and low) cycle test | 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