



specification

SHEET FOR APPROVAL

Part Name: YX85S

Type: Magnetic Sounder

Customer Name: _____

Number of the Edition: _____



| | Approved by | Checked by | Issued by |
|-----------|-------------|------------|-----------|
| Signature | | | |
| Date | | | |

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Magnetic Sounder

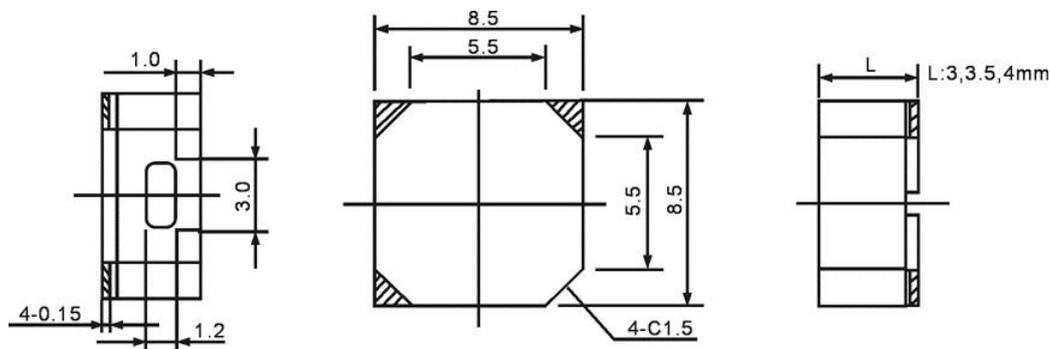
YX85S



Electrical Characteristics

| Model No. | Unit | YX85S (8530, 8535, 8540) | | |
|---------------------------|-------|-------------------------------------|-------------|---------------|
| Rated Voltage | Vo-p | 1.5 | 3.6 | 5 |
| Operating Voltage | Vo-p | 1-2 | 2-5 | 4-6 |
| Rated Current | mA | ≤90 | | |
| Min. Sound Output at 10cm | dB | 2-2.5Hz ≥86 | 2.5-3Hz ≥86 | 2.7-3.2Hz ≥86 |
| Coil Resistance | Ω | 6±1 | 17±3 | 42±5 |
| Resonant Frequency | Hz | 2731 | | |
| Operating Temperature | °C | -30~+70 | | |
| Storage Temperature | °C | -40~+85 | | |
| Weight(MAX) | gram | 0.6 | | |
| ROHS | | YES | | |
| Storage life | month | 6 months preservation at room temp. | | |

Dimensions : (Unit: mm)



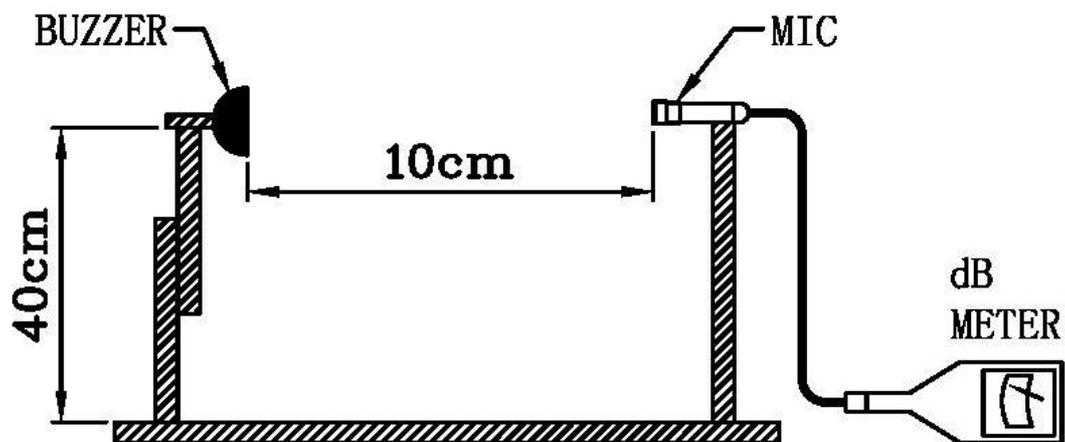
A: TESTING METHOD

Standard Measurement :

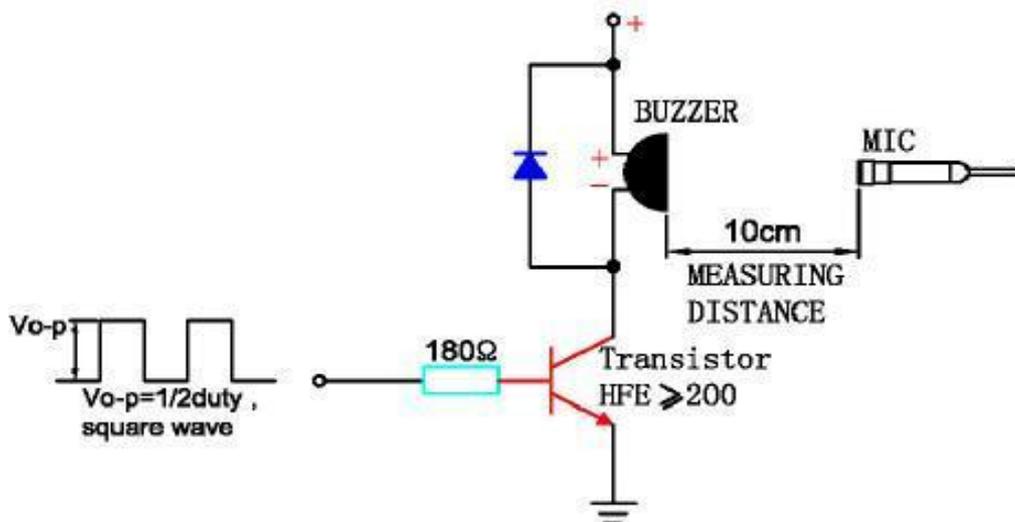
Temperature: $25 \pm 2^\circ\text{C}$ Humidity: 45-65%

Acoustic Characteristics:

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



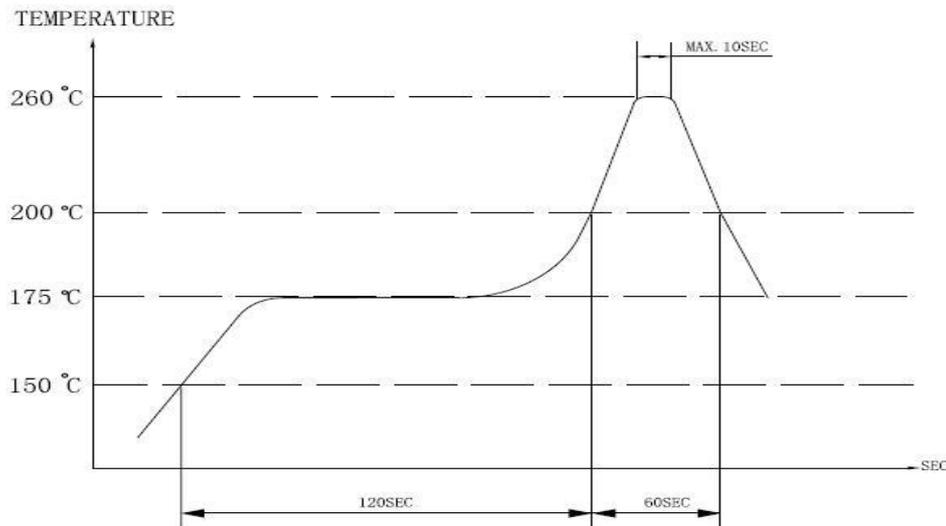
In the measuring test, buzzer is placed as follows:



B: SOLDERING CONDITION

(1) Recommendable reflow soldering condition is as follows (Reflow soldering is twice)

Note: It is requested that reflow soldering should be executed after heat of product goes down to normal.



Heat resistant line

Used when heat resistant reliability test is performed

(2) Manual soldering

Manual soldering temperature 350 °C within 5 sec

C. MECHANICAL CHARACTERISTICS

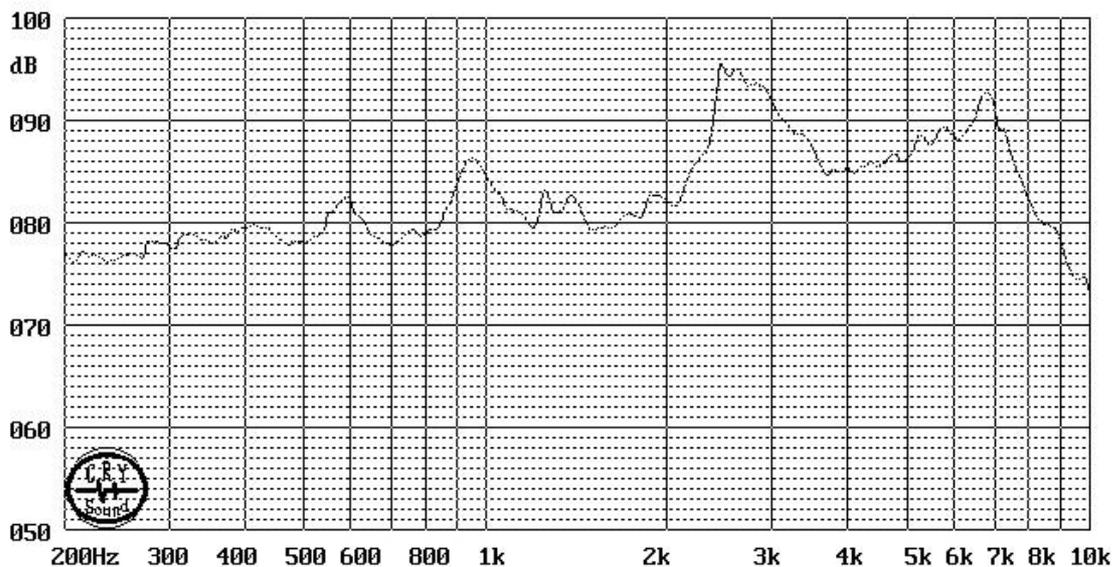
| NO. | item | Test Condition | Evaluation standard |
|-----|------------------------------|--|--|
| 1 | Solder ability | Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5 for 3±1 seconds. | 90% min. lead terminals shall be wet with solder. (Except the edge of terminal) |
| 2 | Soldering Heat Resistance | Lead terminal are immersed up to 1.5mm from sounder's body in solder bath of +300±5 for 3±0.5 seconds or +260±5 for 10±1 seconds | No interference in operation |
| 3 | Terminal Mechanical Strength | The force 10 seconds of 9.8N (1.0kg) is applied to each terminal in axial direction. | No damage and cutting off |
| 4 | Vibration | Buzzer shall be measured after being applied vibration of amplitude of 0.75mm with 10 to 55hz band of vibration frequency to each of 3per-pendicular directions for 0.5 hours. | The value of oscillation frequency/ current consumption should be in 10% compared with initial ones .The SPL should be |
| 5 | Drop test | The part only shall be dropped from a height of 70cm onto a 10mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times). | in ± 10dB compared with initial one. |

D. ENVIRONMENT TEST

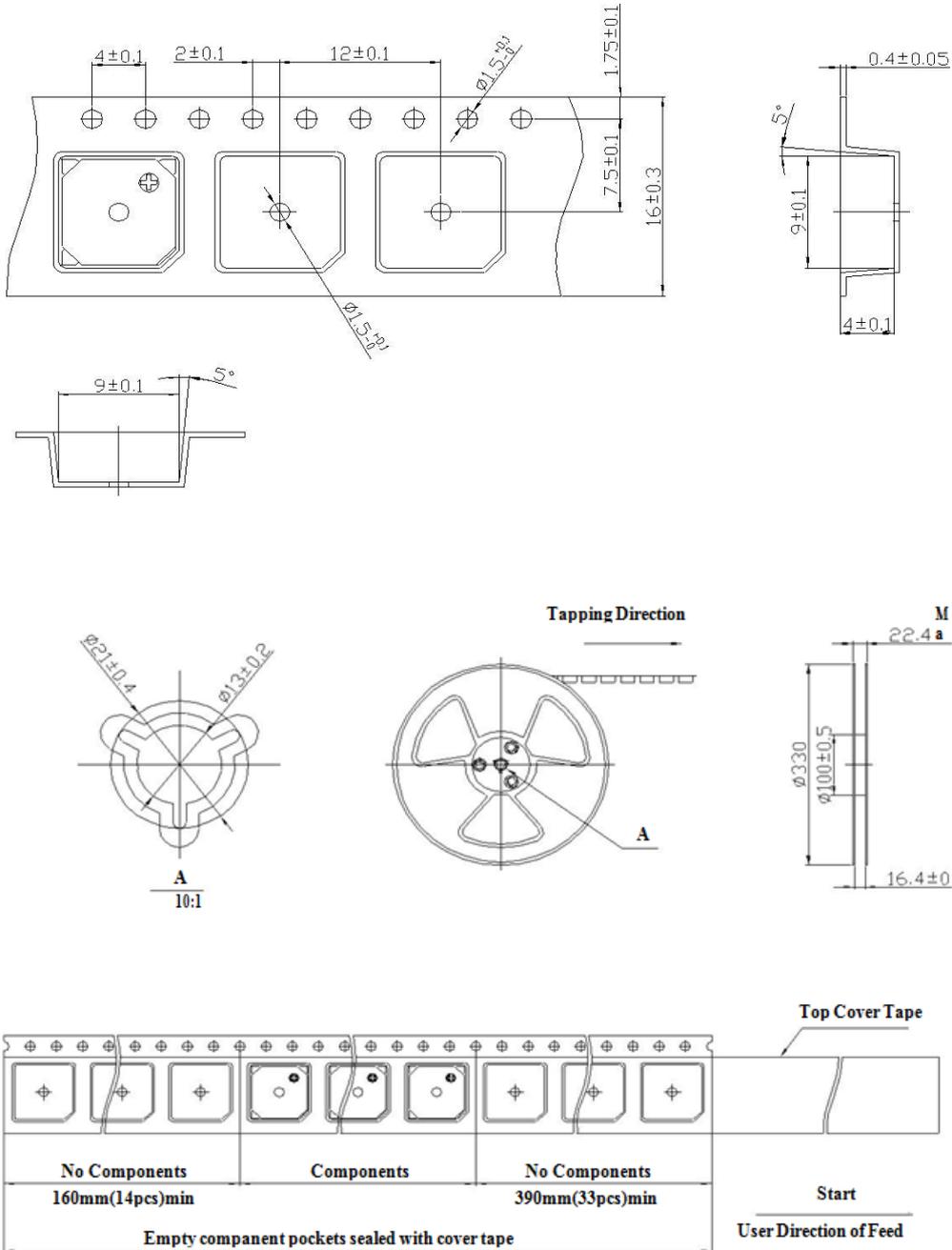
| NO. | item | Test Condition | Evaluation standard |
|-----|------------------|--|---|
| 1 | High temp. test | After being placed in a chamber at +80 for 96 hours | Being placed for 4 hours at +25 , buzzer shall be measured. The value of oscillation frequency/ current consumption should be in $\pm 10\%$ compared with initial ones .The SPL should be in $\pm 10\text{dB}$ compared with initial one. |
| 2 | Low temp. test | After being placed in a chamber with -30 for 96 hours | |
| 3 | Humidity test | After being placed in a chamber at +40 and 90 5% relative humidity for 96 hours | |
| 4 | Temp. cycle test | The part shall be subjected to 5 cycles. One cycle shall be consist of: <div style="text-align: center;"> </div> | |

F.FREQUENCY RESPONSE:

Applied voltage:5.0Vp-p,squae wave:1/2duty Distance for measurement:10cm with recommended cavity



G. PACKING FORMAT (UNIT: mm)



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