

SPECIFICATION

For Electro-Magnet Transducer

| | |
|-------------------|---------------|
| Customer | |
| Customer P/N | |
| BeStar Model Name | BMT0905XH05LF |
| Product No. | 020400 |
| Issue No. | BS/TET01.075B |
| Issue Date | 07.2.12 |

Approval:

- 1.Characteristics
- 2.Dimension
- 3.Reliability Test
- 4.Packing
- 5.Notice
- 6.History change record

| Drawn by | Checked by | Approved by | Customer approved |
|----------|------------|-------------|-------------------|
| | | | |

For conform to the European Union Directive on the Restriction of Hazardous Substances(RoHS), this type of productions forbid use all the hazardous substances as follow:

Lead
Cadmium
Mercury
Hexavalent chromium
Polybrominated biphenyls (PBB)
Polybrominated diphenyl ethers (PBDE)



BESTAR ELECTRONICS INDUSTRY CO.,LTD

No.199 HuangHe West Road.New district,changzhou,
jiangsu Province,P.R.China

Tel:86-519-8222567 Fax:86-519-8222551

Http:www.be-star.com

E-mail: wu@be-star.com, info@be-star.com

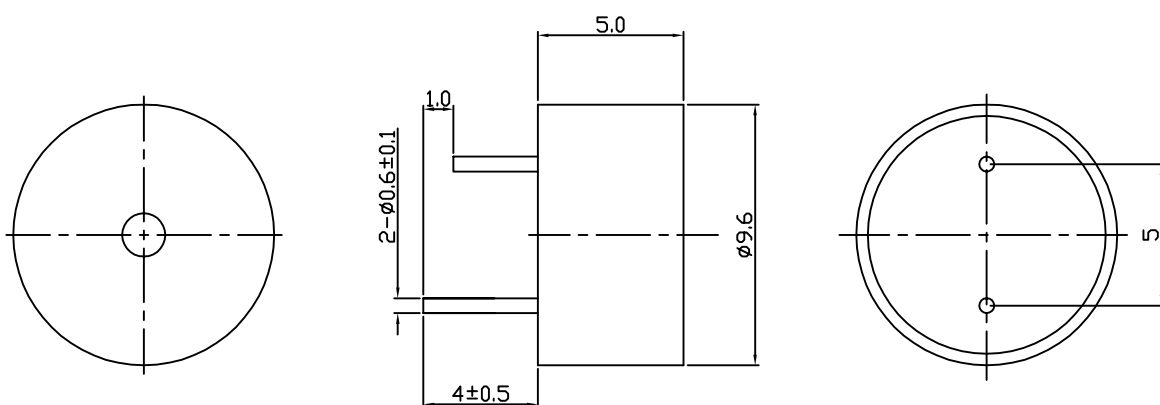
BMT0905XH05LF



1.Characteristics

| No. | Item | Specifications |
|---|------------------------|-------------------------------------|
| 1 | Operating Voltage | 4...6V |
| 2 | Rated Voltage | 5V |
| 3 | * Sound Output at 10cm | $\geq 80\text{dB}$ |
| 4 | * Resonant Frequency | $2600 \pm 300\text{Hz}$ |
| 5 | * Rated Current | $\leq 25\text{mA}$ |
| 6 | ** Response time | $\leq 50\text{ms}$ |
| 7 | Operating Temperature | $-25...+70\text{ }^{\circ}\text{C}$ |
| 8 | Storage Temperature | $-30...+80\text{ }^{\circ}\text{C}$ |
| 9 | Weight | 1g |
| * Value applying rated voltage (DC) | | |
| **Value applying min operating DC voltage | | |

2. Dimension



Tolerance: $\pm 0.3\text{mm}$

| | | | | | | | |
|-------------------------------------|---------|-------|------|--------------|---------|---------------|-------------|
| | | | | Date: | 07.2.12 | BMT0905XH05LF | |
| B | 07.2.12 | 韩学慧 | | Drawn by: | 韩学慧 | | |
| A | 02.6.26 | 王善梅 | | Checked by: | 邵凯 | Transducer | |
| Rev. | Date | Drawn | Note | Approved by: | 程久生 | | |
| BESTAR ELECTRONICS INDUSTRY CO.,LTD | | | | | | BS/TET01.075B | Page:1 of 4 |
| www.be-star.com wu@be-star.com | | | | | | | |

BMT0905XH05LF

3. Reliability test

3.1 high temperature test

Temperature

+80 °C

Duration

96hrs

3.2 low temperature test

Temperature

-30 °C

Duration

96hrs

3.3 life test in normal temperature

Power supply

rated voltage

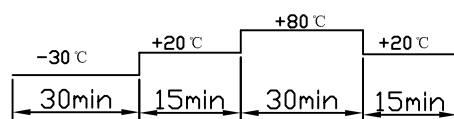
Duration

1000hrs

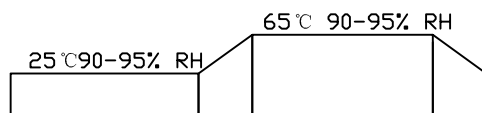
3.4 temperature cycle test

Cycles

5

3.5 Humidity cycle test
cycles

5



all these tests above should be measured after leaving normal temperature for 2hrs.

3.6 Drop test

Height

70cm(to 10mm thickness woodenboard)

Direction

3

3.7 Solderability test

Soldering temperature

245 ± 5 °C

Direction

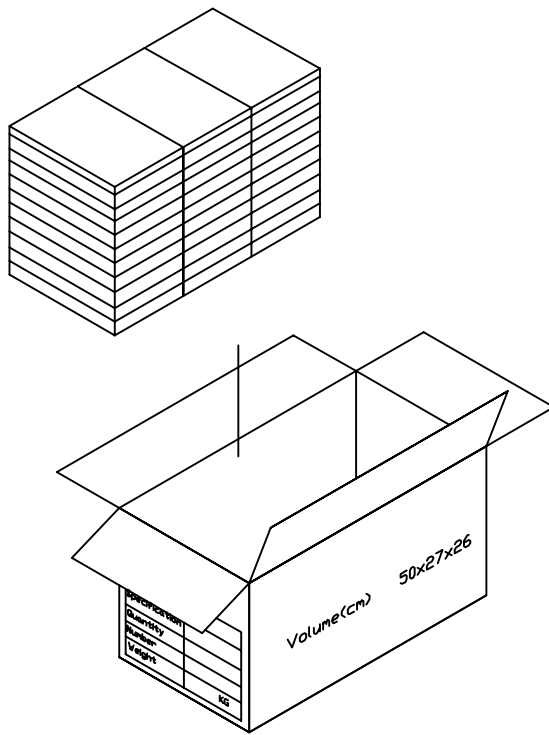
3 ± 0.5S

Notice: All specification must be satisfied in this condition except SPL.SPL shall be 75dB or more

| | | | | | | |
|-------------------------------------|----------|-------|------|--------------|---------|---------------|
| | | | | Date: | 07.2.12 | BMT0905XH05LF |
| B | 07.02.12 | 韩学慧 | | Drawn by: | 韩学慧 | |
| A | 02.6.26 | 王善梅 | | Checked by: | 邵凯 | Transducer |
| Rev. | Date | Drawn | Note | Approved by: | 程久生 | |
| BESTAR ELECTRONICS INDUSTRY CO.,LTD | | | | | | BS/TET01.075B |
| www.be-star.com wu@be-star.com | | | | | | Page:2 of 4 |

BMT0905XH05LF

4. Packing



Remark:

- 1)100pcs/tray
- 2)30tray/carton
- 3)3000 pcs/carton in total
- 4)carton size 50x27x26cm

5. Notice

5.1 The products mustn't be washed

5.2 Storage Condition

The products should be stored in the room ,where the temperature/humidity is stable. And avoid such places where there are large temperature changes. Please store the products at the following conditions:

Temperature: -10 to + 40° C Humidity: 15 to 85% R.H.

5.3 Expire Date on Storage

Expire date (Shelf life) of the products is six months after delivered under the conditions of a sealed and an unopened package. Please use the products within six months after delivered.

If you store the products for a long time (more than six months), use carefully because the products may be degraded in the solderability and/or rusty. Please confirm solderability and characteristics for the products regularly.

5.4 Notice on Product Storage

(1) Please do not store the products in a chemical atmosphere (Acids, Alkali, Bases, Organic gas, Sulfides and so on), because the characteristics may be reduced at quality, and/or be degraded in the solderability due to the storage in a chemical atmosphere.

(2) Please use the products immediately after the package is opened, because the characteristics may be reduced at quality, and/or be degraded in the solderability due to storage under the poor condition.

| | | | | | | | |
|-------------------------------------|----------|-------|------|--------------|---------|---------------|-------------|
| | | | | Date: | 07.2.12 | BMT0905XH05LF | |
| B | 07.02.12 | 韩学慧 | | Drawn by: | 韩学慧 | | |
| A | 02.6.26 | 王善梅 | | Checked by: | 邵凯 | | |
| Rev. | Date | Drawn | Note | Approved by: | 程久生 | Transducer | |
| BESTAR ELECTRONICS INDUSTRY CO.,LTD | | | | | | | |
| www.be-star.com wu@be-star.com | | | | | | BS/TET01.075B | Page:3 of 4 |

6. History change record

[illegible]

| | | | | | | | |
|--|---------|-------|------|--------------|---------|---------------|-------------|
| | | | | Date: | 07.2.12 | BMT0905XH05LF | A |
| B | 07.2.12 | 韩学慧 | | Drawn by: | 韩学慧 | | |
| A | 02.6.26 | 王善梅 | | Checked by: | 邵凯 | Transducer | |
| Rev. | Date | Drawn | Note | Approved by: | 程久生 | | |
| BESTAR ELECTRONICS INDUSTRY CO.,LTD www.be-star.com wu@be-star.com | | | | | | BS/TET01.075B | Page:4 of 4 |