|  |  |
| --- | --- |
| Name | Security Level |
| BELLSINGTM Hornet Series BMBA Receiver | Open |
| Version | A Total of Pages |
| REV X3 |

BTC300C90012

Product Data Sheet

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Prepared by: | Shane |  | Date: | 2022-01-19 |
| Auditor: | Allen |  | Date: | 2022-01-19 |
| Approver: |  |  | Date: |  |



Shenzhen Bellsing Acoustic Tech. Co., Ltd.

BTC300C90012 BMBA receiver

# Description

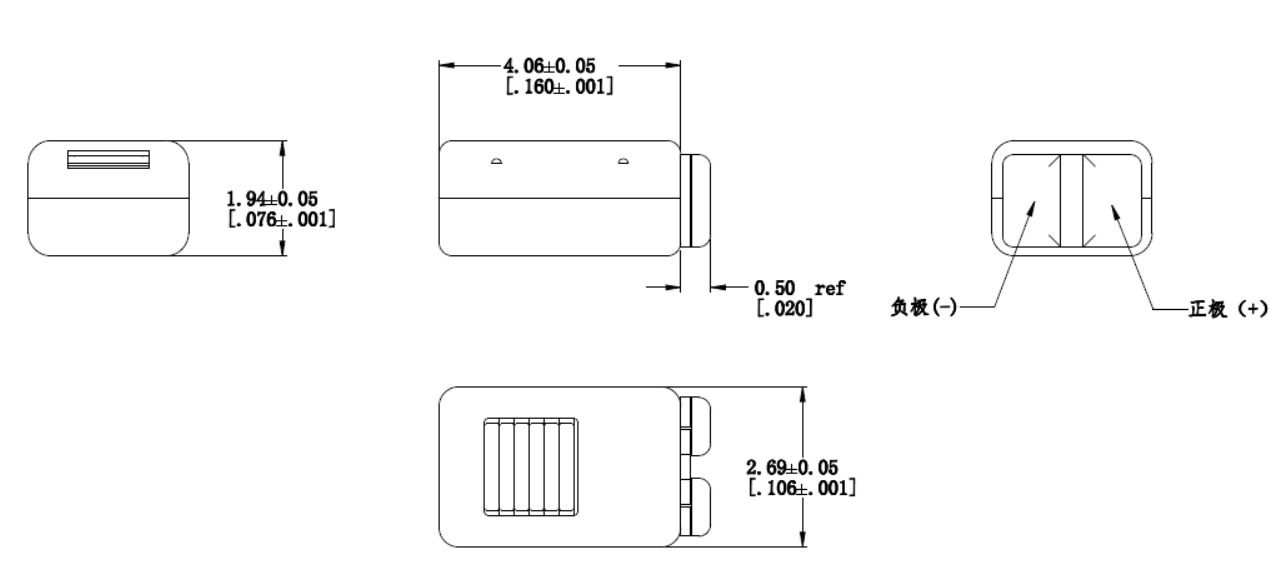
## Bellsing Miniature balanced-armature（BMBA） receiver. This transducer is recommended for use in consumer electronics.

|  |  |
| --- | --- |
| Name: | Hornet Series BMBA Receiver |
| Part Number: | BTC300C90012 REV X3 |

# Construction Specification

## Weight: 0.08 g

## Mechanical dimension：please refer to the drawing below



\*A positive voltage applied to the negative terminal (­) will result in an increase in pressure at the sound outlet.

# Features & Benefits

## Perfect package size for headset applications

## Ideal choice of tweeter

## Outstanding efficiency

## Substantial maximum output

# Electro-acoustic Specifications

## Test condition

## Acoustic tubing: 10.0 mm of 1.0 mm diameter tubing

## Acoustic coupler: IEC711 coupler(20-20kHz)/IEC716 coupler(20-40kHz)

## Constant voltage drive: 0.094V RMS

## Environment: 23 ℃, RH 50%

## Acoustic Parameter I

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Item | | Nominal | Tolerance | Comments |
| Sensitivity(dB) | @ 200Hz | 93 | +/- 3.0 |  |
| @ 500Hz | 93 | +/- 3.0 |  |
| @ 1000Hz | 94.5 | +/- 3.0 |  |
| Peak 1 | Frequency (Hz) | 4500 | +/- 350 |  |
| SPL (dB) | 117 | +/- 3.0 |  |
| Peak 2 | Frequency (Hz) | 7100 | +/- 500 |  |
| SPL (dB) | 113.5 | +/- 3.0 |  |

## Acoustic Parameter II

|  |  |  |  |
| --- | --- | --- | --- |
| Test Item | | Nominal | Comments |
| THD (%) | @ 1/2 1st peak | < 5.0 |  |
| @ 1/3 1st peak | < 5.0 |  |

## Electric Parameter

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Item | | Nominal | Tolerance | Comments |
| Impedance (ohm) | @ 500Hz | 13.5 | +/- 15% |  |
| @ 1000Hz | 14.5 | +/- 15% |  |
| DCR (ohm) | | 12.5 | +/- 10% |  |

## Nominal Frequency Response Curve

# Package and Storage Condition

## Package: PET bubble pack, 1 pcs per bubble, 100 pcs per pack

## Storage temperature range: -40℃ ~ 60℃

## Storage humidity range: <60%