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

BTC205C10006

Product Data Sheet

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Prepared by: | Sam |  | Date: | 2021-03-15 |
| Auditor: |  |  | Date: |  |
| Approver: |  |  | Date: |  |



Shenzhen Bellsing Acoustic Tech. Co., Ltd.

BTC205C10006 BMBA receiver

# Description

## Bellsing Miniature balanced-armature（BMBA） receiver. This transducer only can be used in consumer electronics.

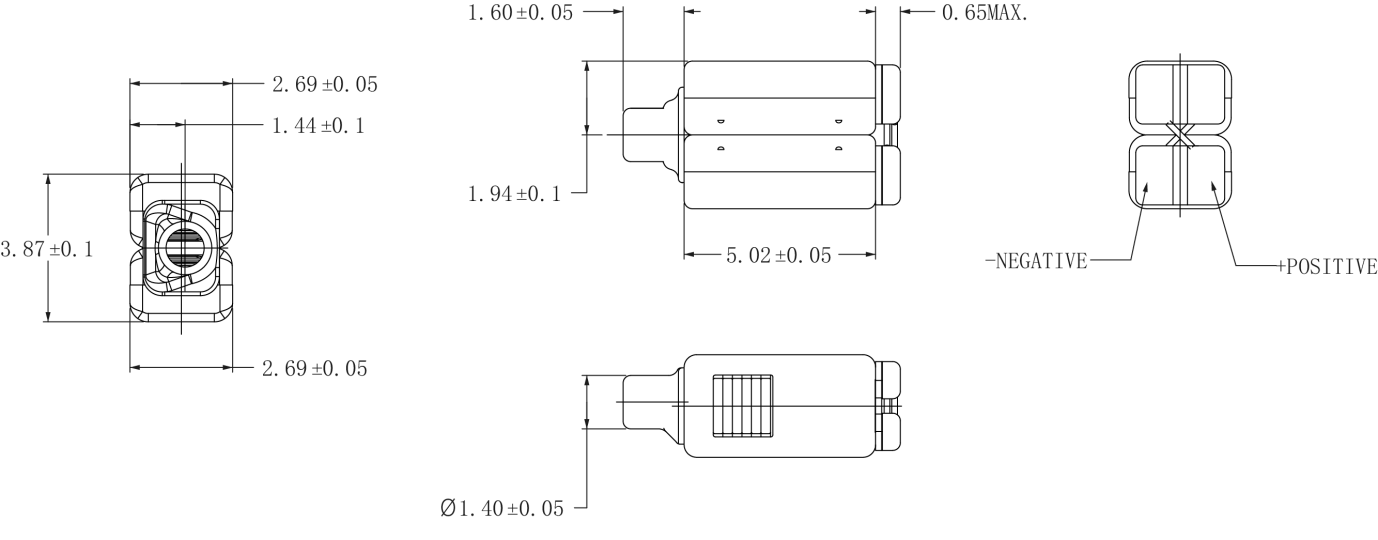
|  |  |
| --- | --- |
| Name: | Hornet Series BMBA Receiver |
| Part Number: | BTC205C10006 REV A |

# Construction Specification

## 

## Weight: 0.19 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

## Dual BMBA receiver used for headset applications

## Outstanding efficiency

## Substantial maximum output

* Ideal choice of tweeter

# Electro-acoustic Specifications

## Test condition

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

## Acoutic coupler: IEC711 coupler

## Constant voltage drive: 0.094V RMS

## Environment: 23℃, RH 50%

## Acoustic Parameter I

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Item | | Nominal | Tolerance | Comments |
| Sensitivity(dB) | @200Hz | 97.0 | +/- 3.0 |  |
| @500Hz | 97.5 | +/- 3.0 |  |
| @1000Hz | 99.5 | +/- 3.0 |  |
| Peak1 | Frequency (Hz) | 5000 | +/- 350 |  |
| SPL(dB) | 121 | +/- 3.0 |  |
| Maximum output @ Peak frequency (dB) | | 123.5 | N/A | THD<10% |

## 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(Ω) | @500Hz | 6.8 | +/- 15% |  |
| @1000Hz | 7.1 | +/- 15% |  |
| DCR(Ω) | | 6 | +/- 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%