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

BRC205C31736

Product Data Sheet

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Prepared by: | Zoe Wang |  | Date: | 2017-12-28 |
| Auditor: |  |  | Date: |  |
| Approver: |  |  | Date: |  |



Shenzhen Bellsing Acoustic Tech. Co., Ltd.

BRC205C31736 AMBA receiver

# Description

## Dual advanced miniature balanced-armature receiver with magnetic-radiation shielding for use in in-ear monitor and headset applications with standard response. This transducer can also play an excellent role as a tweeter driver in commercial hearing products.

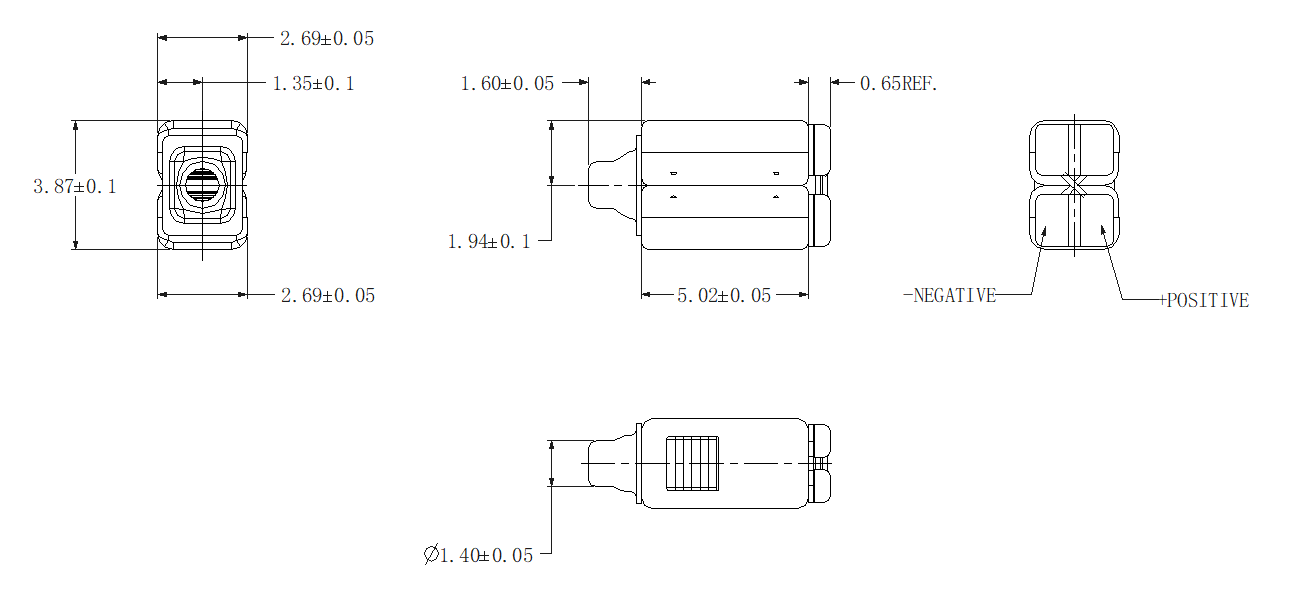
|  |  |
| --- | --- |
| Name: | Hornet Series AMBA Receiver |
| Part Number: | BRC205C31736 REV C |

# Construction Specification

## BRC205-2.png

## Weight: 0.18 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 AMBA receiver used for headset applications

## Outstanding efficiency

## Substantial maximum output

## Magnetic-radiation shielded

## Optimized mechanical shock resistance

# 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 | 99.0 | +/- 3.0 |  |
| @500Hz | 99.5 | +/- 3.0 |  |
| @1000Hz | 101.0 | +/- 3.0 |  |
| Peak1 | Frequency (Hz) | 3550 | +/- 350 |  |
| SPL(dB) | 119.5 | +/- 3.0 |  |
| Peak2 | Frequency (Hz) | 7100 | +/- 500 |  |
| SPL(dB) | 116.0 | +/- 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 |  |
| @500Hz | <5.0 |  |

## Electric Parameter

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Item | | Nominal | Tolerance | Comments |
| Impedance(Ω) | @500Hz | 7.0 | +/- 15% |  |
| @1000Hz | 7.5 | +/- 15% |  |
| DCR(Ω) | | 6.3 | +/- 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%