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

BRC305C70012

Product Data Sheet

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Prepared by: | Zoe Wang |  | Date: | 2017-12-25 |
| Auditor: |  |  | Date: |  |
| Approver: |  |  | Date: |  |



Shenzhen Bellsing Acoustic Tech. Co., Ltd.

BRC305C70012 AMBA receiver

# Description

## Miniature balanced-armature receiver with stainless steel case for using in headset applications, CIC (Complete In the Canal) and IIC (Invisible In the Canal) applications with standard response, can also be used in commercial hearing devices. The wide bandwidth version pushes the boundaries of high-frequency performance.

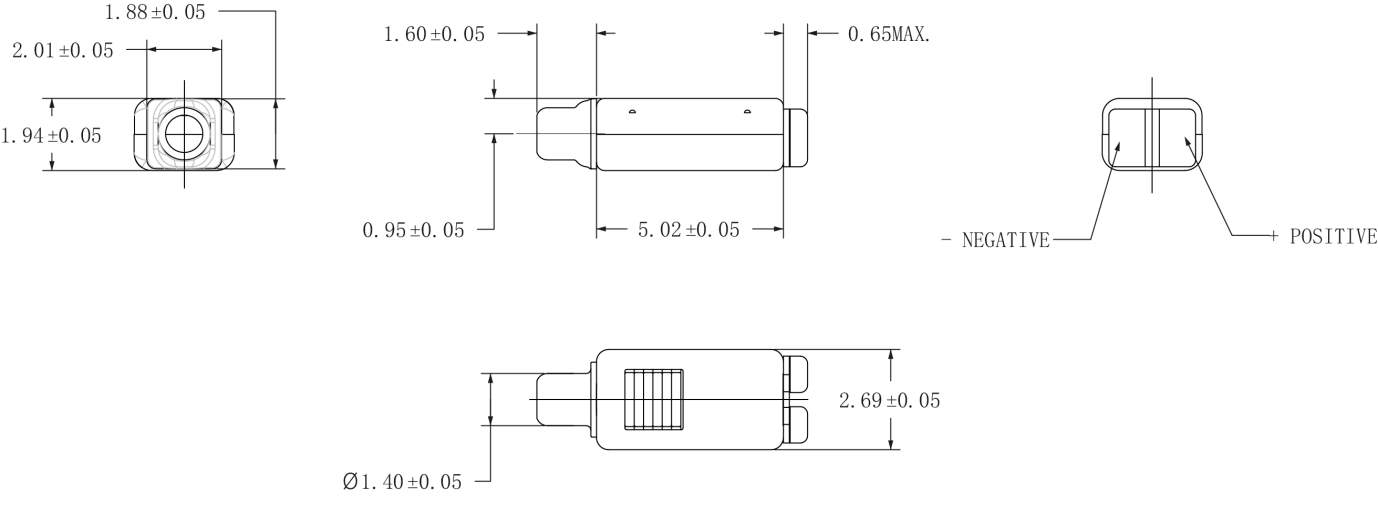
|  |  |
| --- | --- |
| Name: | Hornet Series AMBA Receiver |
| Part Number: | BRC305C70012 REV A |

# Construction Specification

## BRC305.png

## Weight: 0.09 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 CIC, IIC applications, headset applications

## Ideal choice of tweeter

## Outstanding efficiency

## Substantial maximum output

## Optimized mechanical shock resistance

# Electro-acoustic Specifications

## Test condition

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

## Acoustic coupler: IEC711 coupler

## Constant voltage drive: 0.094 V RMS

## Environment: 23 ℃, RH 50%

## Acoustic Parameter I

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Item | | Nominal | Tolerance | Comments |
| Sensitivity(dB) | @ 200Hz | 93.5 | +/- 3.0 |  |
| @ 500Hz | 93.5 | +/- 3.0 |  |
| @ 1000Hz | 95 | +/- 3.0 |  |
| Peak 1 | Frequency (Hz) | 4250 | +/- 350 |  |
| SPL (dB) | 116 | +/- 3.0 |  |
| Peak 2 | Frequency (Hz) | 7100 | +/- 500 |  |
| SPL (dB) | 115 | +/- 3.0 |  |
| Maximum output @ peak frequency (dB) | | 125.0 | N/A | THD<10% |

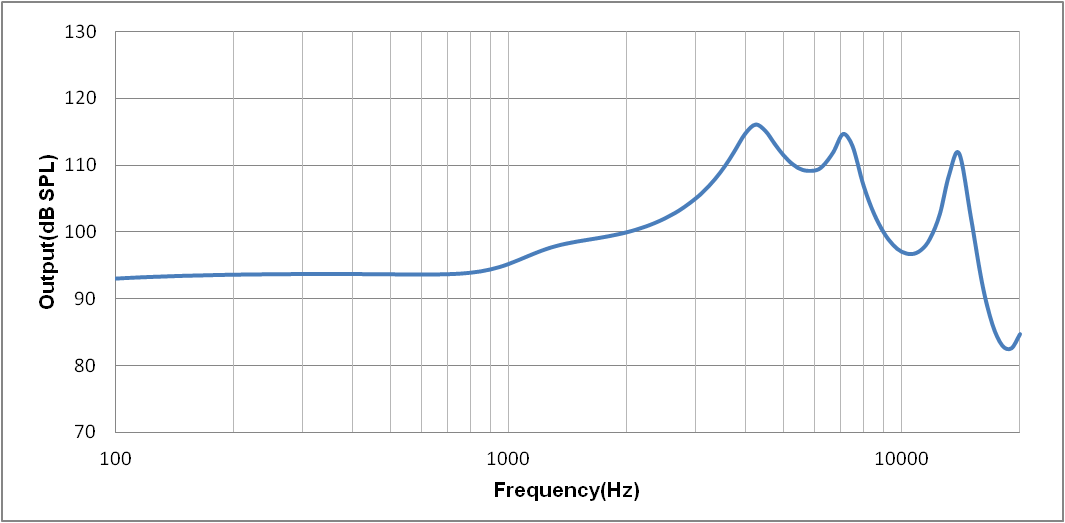
## Acoustic Parameter II

|  |  |  |  |
| --- | --- | --- | --- |
| Test Item | | Nominal | Comments |
| THD (%) | @ 1/2 1st peak | < 5.0 |  |
| @ 1/3 1st peak | < 5.0 |  |
| @ 500 Hz | < 5.0 |  |

## Electric Parameter

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Item | | Nominal | Tolerance | Comments |
| Impedance (ohm) | @ 500Hz | 13 | +/- 15% |  |
| @ 1000Hz | 13.5 | +/- 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%