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

BTC310C10013

Product Data Sheet

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Prepared by: | Zoe Wang |  | Date: | 2019-6-13 |
| Auditor: |  |  | Date: |  |
| Approver: |  |  | Date: |  |



Shenzhen Bellsing Acoustic Tech. Co., Ltd.

BTC310C10013 AMBA receiver

# Description

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

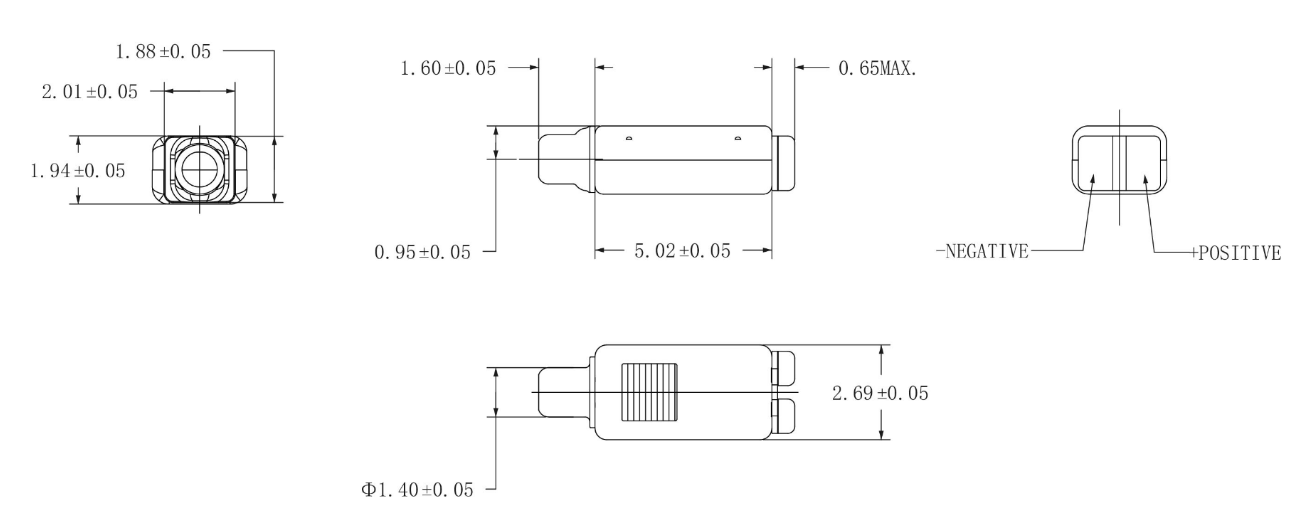
|  |  |
| --- | --- |
| Name: | Hornet Series AMBA Receiver |
| Part Number: | BTC310C10013 REV A |

# Construction Specification

## BRC-305-2.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 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

## Constant voltage drive: 0.085 V RMS

## Environment: 23 ℃, RH 50%

## Acoustic Parameter I

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Item | | Nominal | Tolerance | Comments |
| Sensitivity(dB) | @ 200Hz | 100.3 | +/- 3.0 |  |
| @ 500Hz | 100 | +/- 3.0 |  |
| @ 1000Hz | 100.5 | +/- 3.0 |  |
| Peak 1 | Frequency (Hz) | 3000 | +/- 350 |  |
| SPL (dB) | 115.3 | +/- 3.0 |  |
| Peak 2 | Frequency (Hz) | 6000 | +/- 500 |  |
| SPL (dB) | 109 | +/- 3.0 |  |
| Maximum output @ peak frequency (dB) | | 123.0 | N/A | THD<10% |

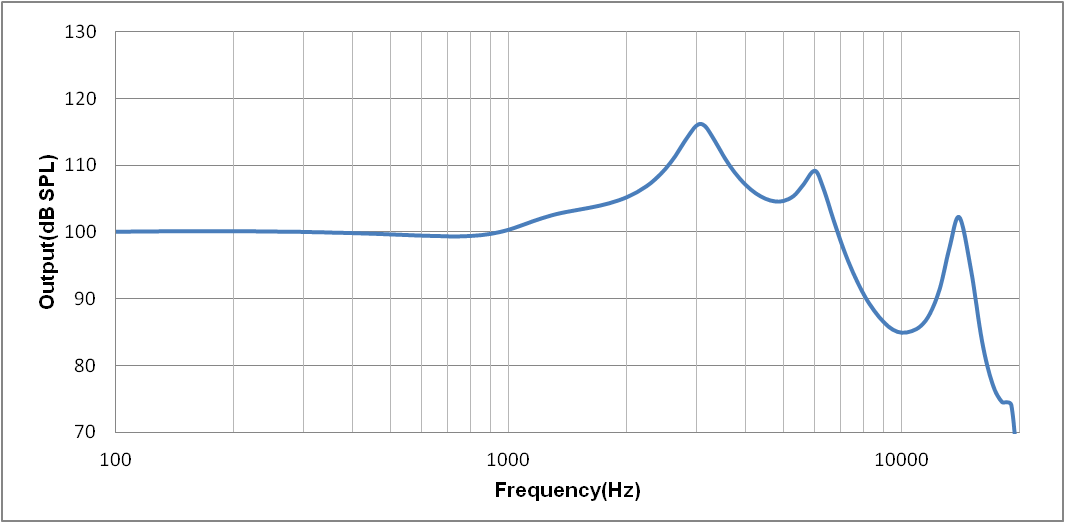
## Acoustic Parameter II

|  |  |  |  |
| --- | --- | --- | --- |
| 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 | 14 | +/- 15% |  |
| @ 1000Hz | 17 | +/- 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%