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

BRC540H90027

Product Data Sheet

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Prepared by: | Hugh |  | Date: | 2019-11-05 |
| Auditor: |  |  | Date: |  |
| Approver: |  |  | Date: |  |



Shenzhen Bellsing Acoustic Tech. Co., Ltd.

BRC540H90027 AMBA receiver

# Description

## Miniature balanced-armature receiver with magnetic-radiation shielding for use in ITE (In The Ear), BTE (Behind the Ear) applications with standard response. This transducer can also play an excellent role as wide-band driver in commercial hearing products.

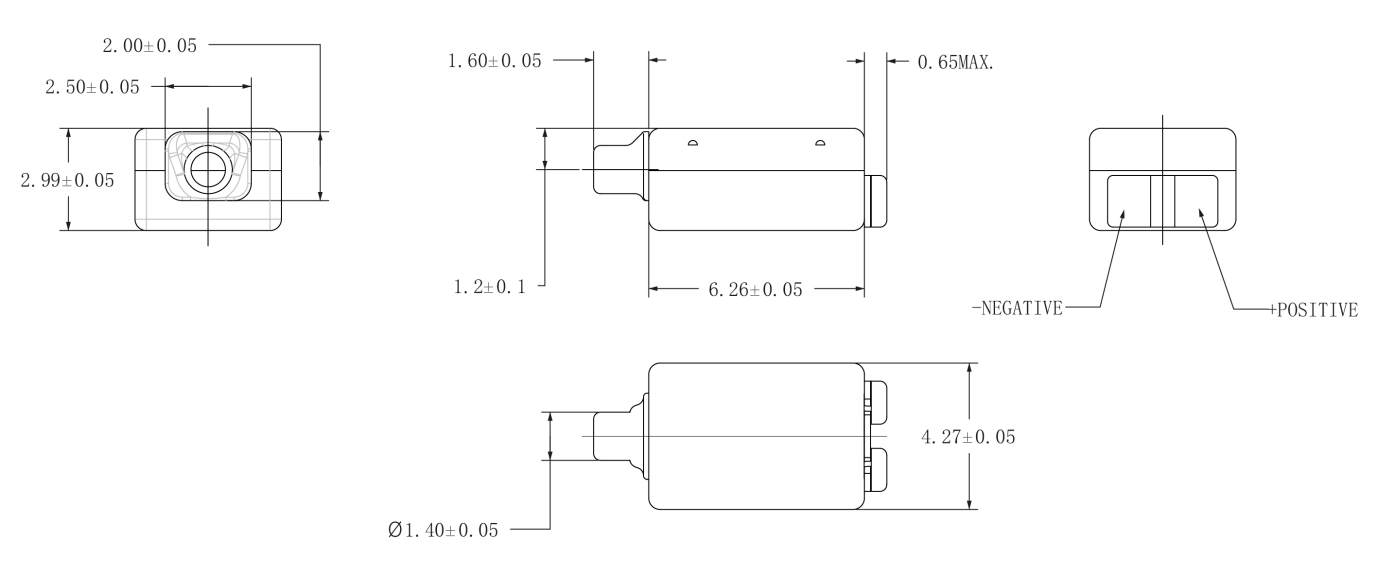
|  |  |
| --- | --- |
| Name: | Hornet Series AMBA Receiver |
| Part Number: | BRC540H90027 REV B |

# Construction Specification

## 微信图片_20170817100816.png

## Weight: 0.31 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 ITE, BTE applications

## Outstanding efficiency

## Substantial maximum output

## Magnetic-radiatio0n 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: 0.146V RMS

## Environment: 23℃, RH 50%

## Acoustic Parameter I

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Item | | Nominal | Tolerance | Comments |
| Sensitivity(dB) | @200Hz | 113.5 | +/- 3.0 |  |
| @500Hz | 110.0 | +/- 3.0 |  |
| @1000Hz | 108.0 | +/- 3.0 |  |
| Peak1 | Frequency (Hz) | 2500 | +/- 350 |  |
| SPL(dB) | 118.5 | +/- 3.0 |  |
| Peak2 | Frequency (Hz) | 4750 | +/- 500 |  |
| SPL(dB) | 113.5 | +/- 3.0 |  |
| Maximum output@Peak frequency (dB) | | 128 | N/A | THD<10% |

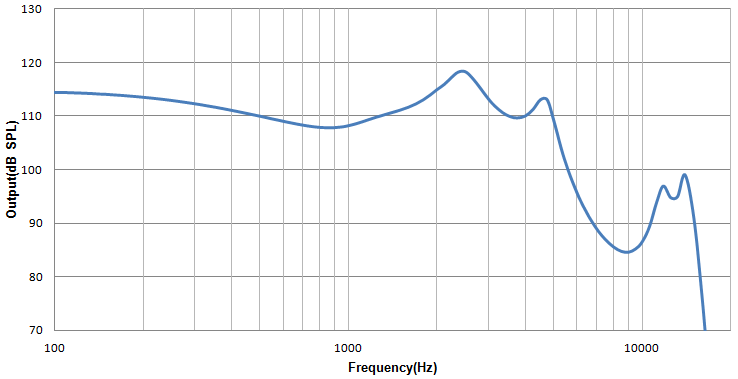
## Acoustic Parameter II

|  |  |  |  |
| --- | --- | --- | --- |
| 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 | 50.0 | +/- 15% |  |
| @1000Hz | 90.0 | +/- 15% |  |
| DCR(Ω) | | 25.0 | +/- 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%