|  |  |
| --- | --- |
| Name | Security Level |
| BELLSINGTM Hornet Series AMBA Receiver | Open |
| Version | A Total of 4 Pages |
| REV 1.0 |

BRC730H90025

Product Data Sheet

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Prepared by: | Zoe |  | Date: | 2019-2-19 |
| Auditor: |  |  | Date: |  |
| Approver: |  |  | Date: |  |



Shenzhen Bellsing Acoustic Tech. Co., Ltd.

BRC730H90025 AMBA receiver

# Description

## Miniature balanced-armature receiver with best vibration performance for use in high end hearing aid instruments with great response. Also plays an excellent role as woofer in in-ear monitors and other commercial hearing products.

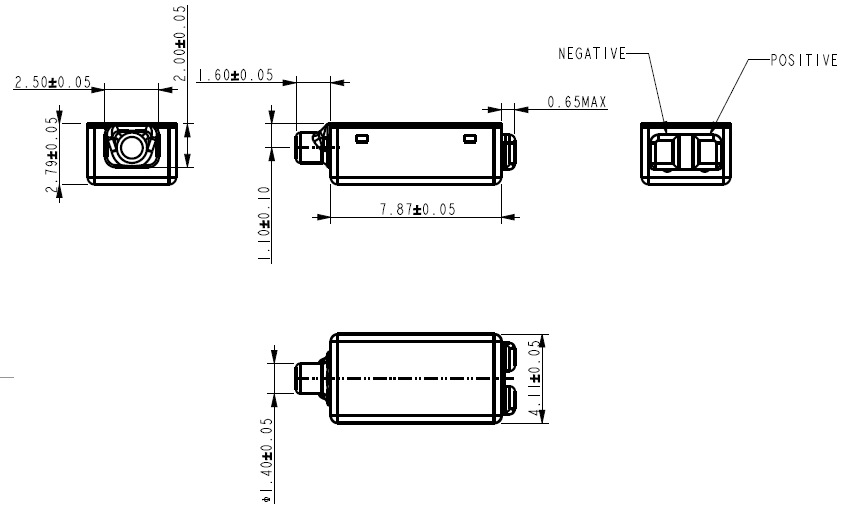
|  |  |
| --- | --- |
| Name: | Hornet Series AMBA Receiver |
| Part Number: | BRC730H90025 REV 1.0 |

# Construction Specification

## 

## 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 BTE, headset applications

## Outstanding efficiency

## Substantial maximum output

## Magnetic-radiation shielded

## Optimized mechanical shock resistance

# Electro-acoustic Specifications

## Test condition

## Acoustic tubing: BTE tubing

## Acoustic coupler: 2CC coupler

## Constant voltage drive: 0.110V RMS

## Environment: 23℃, RH 50%

## Acoustic Parameter I

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Item | | Nominal | Tolerance | Comments |
| Sensitivity(dB) | @100Hz | 105.5 | +/- 3.0 |  |
| @200Hz | 105.5 | +/- 3.0 |  |
| @500Hz | 106 | +/- 3.0 |  |
| Peak1 | Frequency (Hz) | 1150 | +/- 350 |  |
| SPL(dB) | 117.5 | +/- 3.0 |  |
| Peak2 | Frequency (Hz) | 2240 | +/- 350 |  |
| SPL(dB) | 113.5 | +/- 3.0 |  |
| Peak3 | Frequency (Hz) | 3450 | +/- 350 |  |
| SPL(dB) | 112 | +/- 3.0 |  |
| Peak4 | Frequency (Hz) | 4500 | +/- 350 |  |
| SPL(dB) | 106.5 | +/- 3.0 |  |
| Peak5 | Frequency (Hz) | 5600 | +/- 350 |  |
| SPL(dB) | 102 | +/- 3.0 |  |

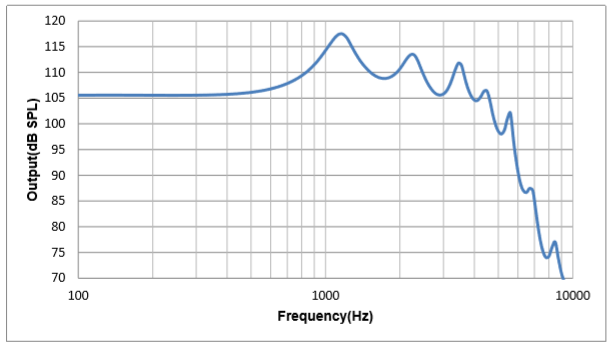
## Acoustic Parameter II

|  |  |  |  |
| --- | --- | --- | --- |
| 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 | 32 | +/- 15% |  |
| @1000Hz | 59 | +/- 15% |  |
| DCR(Ω) | | 25 | +/- 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%