|  |  |
| --- | --- |
| Name | Security Level |
| BELLSING® JOYLIVE Series BMBA Receiver | Open |
| Version | A Total of Pages |
| REV X1 |

BVA200X24012

Product Data Sheet

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Prepared by: | Jack Zhao |  | Date: | 2022-10-21 |
| Auditor: | Nick Zheng |  | Date: | 2022-10-21 |
| Approver: |  |  | Date: |  |



Shenzhen Bellsing Acoustic Tech. Co., Ltd.

**Product Specification**

Product number : See below List

|  |  |
| --- | --- |
| Model Number | Description |
| BVA200L24012 | SIZE 2, MEDIUM, LEFT, METAL TUBE |
| BVA200R24012 | SIZE 2, MEDIUM, RIGHT, METAL TUBE |



**1. Description and Application**

1.1 Description

RIC Module for hearing aid units

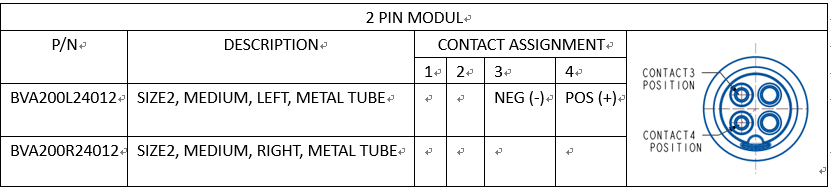
1.2 Application

Medical equipment

**2. Mechanical Layout and Dimensions**

2.1 Dimension

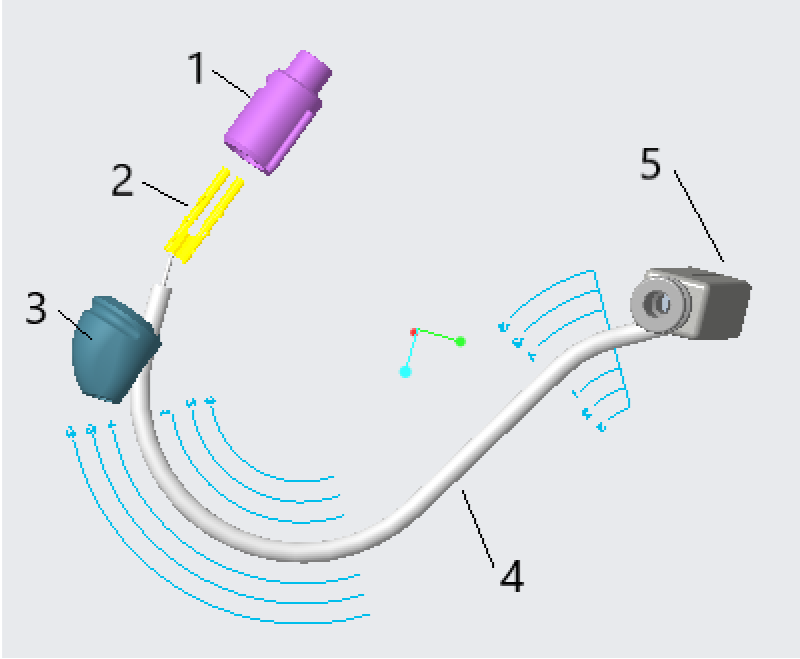
2.1.1 Mian Dimension



2.1.2 Size Dimension

|  |
| --- |
| BVA200L24012, BVA200R24012 |
|  |
|  |

2.2 Material List



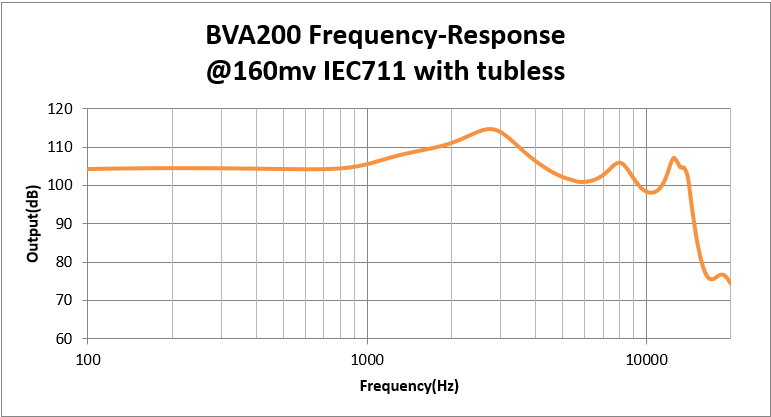
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| QTY | | DESCRIPTION | | ITEM | |
| 1 | | Connector | | 1 | |
| 2 | | Metal Sleeve | | 2 | |
| 1 | | Connector rear housing | | 3 | |
| 1 | | Nylon11 Tube, OD 1.0mm | | 4 | |
| 1 | | RECEIVER | | 5 | |
| THIS BILL OF MATERIAL IS PRIVIDED AS A REFERENCE,  BELLSING CONTROLLED BOM TAKES PRECEDENCE. | | | | | |

**3. Electrical and Acoustical Specifications**

3.1 Frequency response

Typical frequency response measured according to chapter 3.3 and 3.5

An undamped magnetic balanced armature receiver with an extended high frequency response.



|  |  |  |  |
| --- | --- | --- | --- |
| Test Item | | Nominal | Tolerance |
| Sensitivity(dB) | @200Hz | 104 | +/- 3.0 |
| @500Hz | 104 | +/- 3.0 |
| @1000Hz | 105 | +/- 3.0 |
| Peak1 | Frequency (Hz) | 2800 | +/- 350 |
| SPL(dB) | 114 | +/- 3.0 |
| Valley1 | Frequency (Hz) | 6100 | +/- 500 |
| SPL(dB) | 97 Minimum | |

3.2 Total Harmonic Distortion (THD)

Typical THD measured according to chapter 3.3 and 3.5

Total Harmonic Distortion

Device Will Not Exceed Total Harmonic Distortion Levels Listed Below.

|  |  |  |  |
| --- | --- | --- | --- |
| Test Item | | Nominal | Comments |
| THD(%) | @1/2 1st peak | <5.0 | AC drive  0.16 Vrms |
| @1/3 1st peak | <5.0 |

Electrical

|  |  |
| --- | --- |
| DC Resistance @20℃ | 65.0Ω+/-10% |
| Impedance @500Hz | 68.0Ω+/-15% |
| Impedance @1000Hz | 78.50Ω+/-15% |

3.3 Test Conditions

|  |  |  |  |
| --- | --- | --- | --- |
| Nominal Source Voltage | | 0.16 Vrms，0 mA DC BIAS | |
| Source Impedance | | ＜1 Ohm | |
| Tubing | | NONE | |
| Coupler Cavity | | 1.26cm³，Simulated IEC711 Coupler（IEC 60318-4） | |

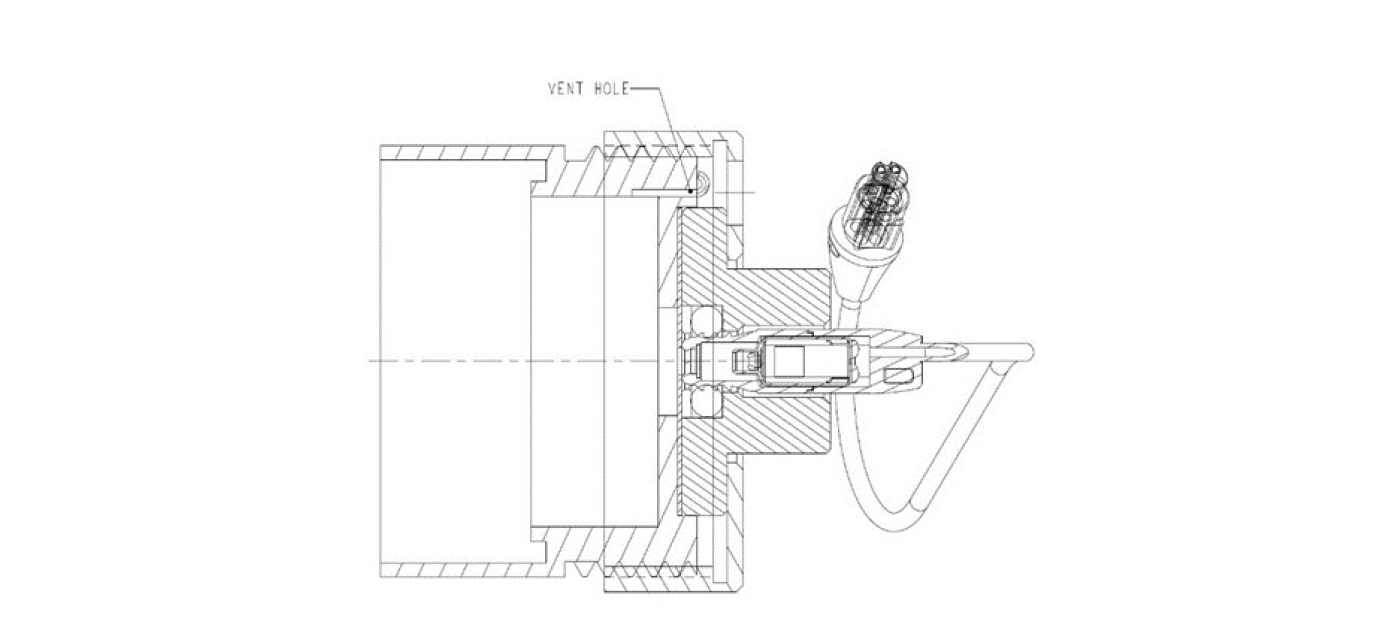
Unless otherwise specified the range of atmospheric condition to complete Measurements and tests will follow 23±5℃ ambient temperature, 25~65% relative humidity

Operating Temperture: Sensitivity at 500Hz will not vary more than +1/-3dB from -17℃~63℃

Storage temperture: -40℃~63℃

Solder Type: SAC305

3.4 Measurement setup



Measurement signal:

Logarithmic sine sweep, 1.5s, 20Hz~20 kHz

No RF chokes included in the measurement!

All acoustic and electric measurements at 23±2°C

3.5 Measurement adapter

