

Name	Security Level
BELLSING™ Hornet Series AMBA Receiver	Open
Version	A Total of 4 Pages
REV A	

# BRC370C10022

## Product Data Sheet

Prepared by: _____	Date: 2016-01-15 _____
Auditor: _____	Date: _____
Approver: _____	Date: _____



Shenzhen Bellsing Acoustic Tech. Co., Ltd.

## BRC370C10022 AMBA receiver

### 1.1 Description

Advanced Miniature balanced-armature ( AMBA ) receiver with magnetic-radiation shielding for use in ITE (In The Ear) , CIC (Complete In the Canal) and IIC (Invisible In the Canal) applications with standard response. This transducer can also play an excellent role as a mid-high frequency driver in commercial hearing products.

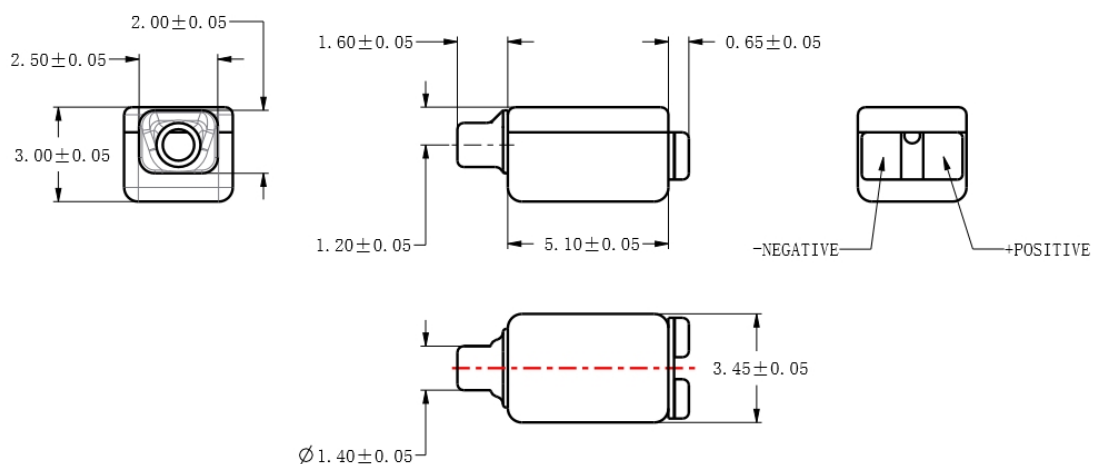
Name:	Hornet Series AMBA Receiver
Part Number:	BRC370C10022 REV A

### 1.2 Construction Specification



Weight: 0.21 g

Mechanical dimension : please refer to the drawing below



### 1.3 Features&Benefits

- I Perfect package size for ITE/CIC/IIC applications
- I Outstanding efficiency
- I Substantial maximum output
- I Magnetic-radiation shielded
- I Optimized mechanical shock resistance
- I Water resisted

### 1.4 Electro-acoustic Specifications

#### Test condition

- I Acoustic tubing: 10.0mm of 1.0mm diameter tubing
- I Acoustic coupler: IEC711 coupler (volume of 2cc)
- I Constant voltage drive: 0.12V RMS
- I Environment: 23°C, RH 50%

#### Acoustic Parameter I

Test Item		Nominal	Tolerance	Comments
Sensitivity(dB)	@200Hz	108.5	+/- 3.0	
	@500Hz	107.5	+/- 3.0	
	@1000Hz	106.0	+/- 3.0	
Peak1	Frequency (Hz)	3100	+/- 350	
	SPL(dB)	117.0	+/- 3.0	
Peak2	Frequency (Hz)	5100	+/- 500	
	SPL(dB)	112.5	+/- 3.0	
Maximum output@Peak frequency (dB)		125	N/A	THD<10%

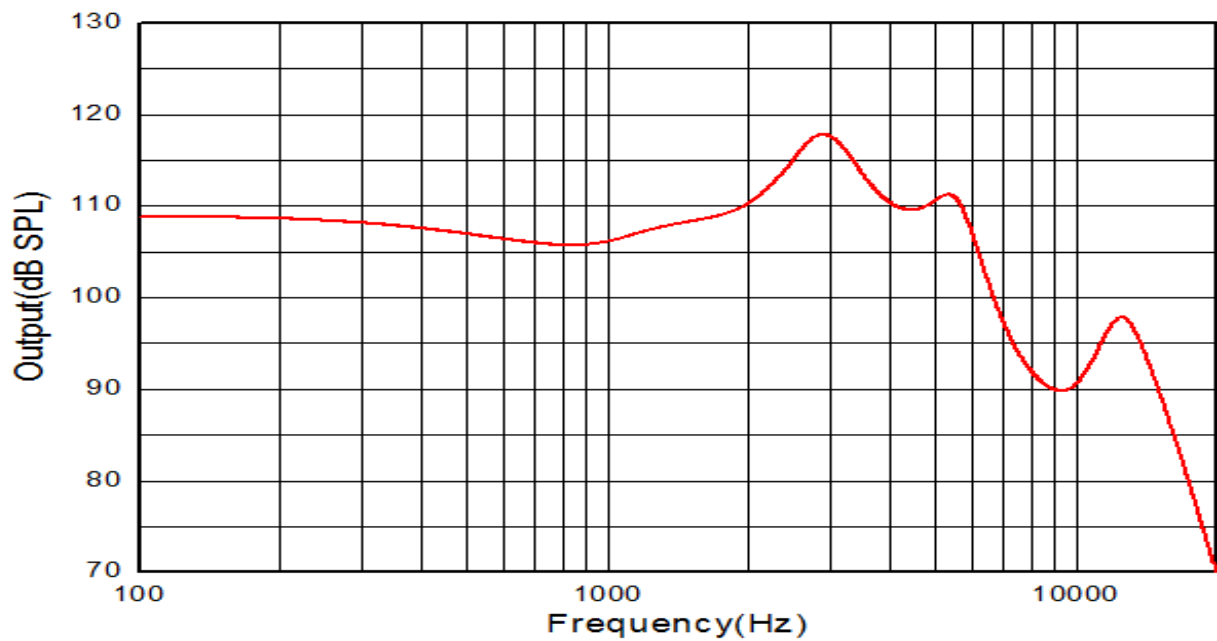
#### Acoustic Parameter II

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

Electric Parameter

Test Item	Nominal	Tolerance	Comments
Impedance( $\Omega$ )	@500Hz	27.0	+/- 15%
	@1000Hz	39.0	+/- 15%
DCR( $\Omega$ )	22.0	+/- 10%	

Nominal Frequency Response Curve



1.5 Package and Storage Condition

- I Package: PET bubble pack, 2pc per bubble, 200pcs per pack
- I Storage temperature range: -40°C ~ 60°C
- I Storage humidity range: <60%