

Name	Security Level
BELLSING® Hornet Series BMBA Receiver	Open
Version	A Total of 4 Pages
REV A	

# BTC215C90006

## Product Data Sheet

Prepared by: Sam.Chen Date: 2020-10-22

Auditor: \_\_\_\_\_ Date: \_\_\_\_\_

Approver: \_\_\_\_\_ Date: \_\_\_\_\_



Shenzhen Bellsing Acoustic Tech. Co., Ltd.

## BTC215C90006 BMBA receiver

### 1.1 Description

Dual bellsing miniature balanced-armature receiver with magnetic-radiation shielding for use in in-ear monitor and headset applications with standard response. This transducer can also play an excellent role as a tweeter driver in commercial hearing products..

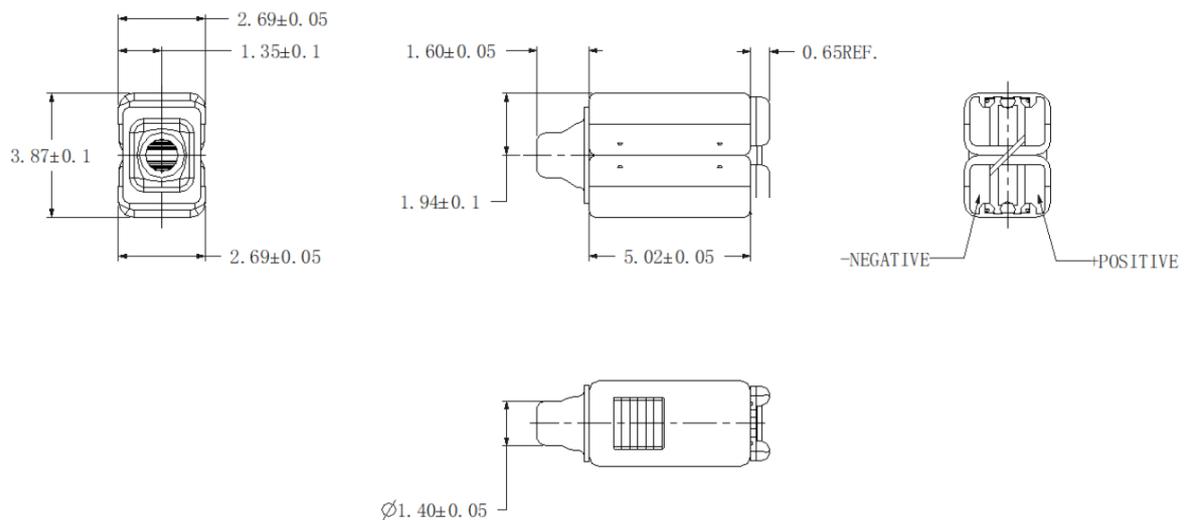
Name:	Hornet Series BMBA Receiver
Part Number:	BTC215C90006 REV A

### 1.2 Construction Specification



Weight: 0.19 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.

### 1.3 Features & Benefits

- Dual BMBA receiver used for headset applications
- Outstanding efficiency
- Substantial maximum output
- Magnetic-radiation shielded
- Optimized mechanical shock resistance

### 1.4 Electro-acoustic Specifications

#### Test condition

- Acoustic tubing: 10.0mm of 1.0mm diameter tubing
- Acoustic coupler: IEC711 coupler
- Constant voltage drive: 0.085V RMS
- Environment: 23°C, RH 50%

#### Acoustic Parameter I

Test Item		Nominal	Tolerance	Comments
Sensitivity(dB)	@200Hz	105.5	+/- 3.0	
	@500Hz	105.5	+/- 3.0	
	@1000Hz	106.5	+/- 3.0	
Peak1	Frequency (Hz)	2650	+/- 350	
	SPL(dB)	121	+/- 3.0	
Peak2	Frequency (Hz)	5600	+/- 500	
	SPL(dB)	114	+/- 3.0	
Maximum output@Peak frequency (dB)		123.5	N/A	THD<10%

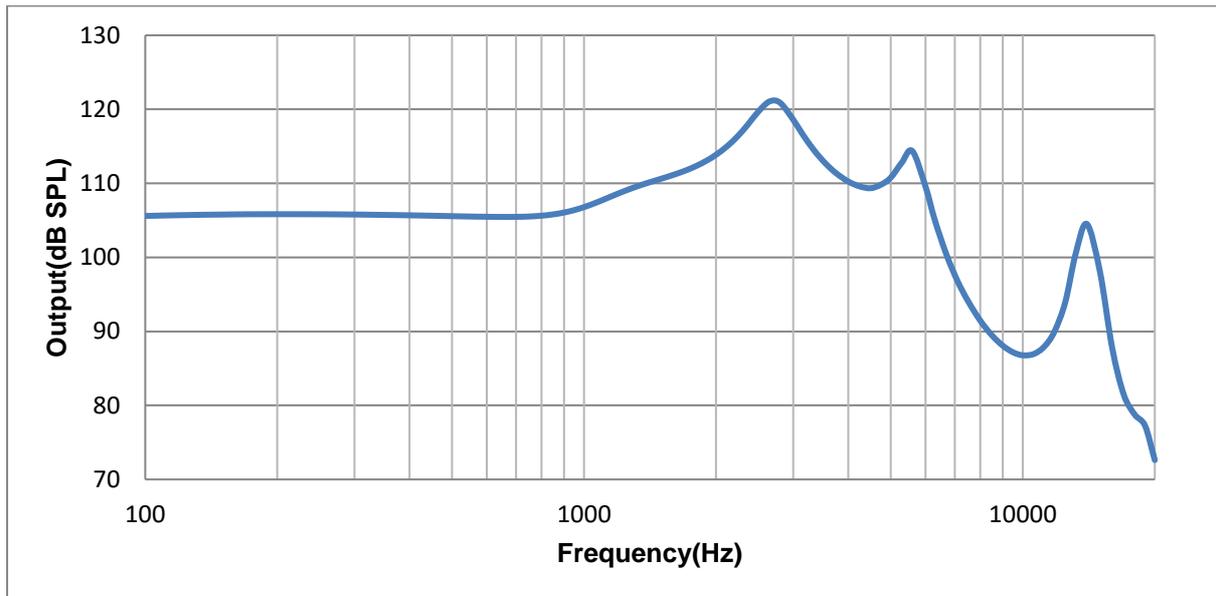
#### Acoustic Parameter II

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

#### Electric Parameter

Test Item		Nominal	Tolerance	Comments
Impedance(Ω)	@500Hz	7	+/- 15%	
	@1000Hz	8.5	+/- 15%	
DCR(Ω)		6.3	+/- 10%	

Nominal Frequency Response Curve



1.5 Package and Storage Condition

- Package: PET bubble pack, 1 pcs per bubble, 100 pcs per pack
- Storage temperature range: -40°C ~ 60°C
- Storage humidity range: <60%