

Name	Security Level
BELLSING™ Hornet Series AMBA Receiver	Open
Version	A Total of 4 Pages
REV 1.0	

BRC283C10013

Product Data Sheet

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Auditor:		Date:	
Approver:		Date:	



Shenzhen Bellsing Acoustic Tech. Co., Ltd.

BRC283C10013 AMBA receiver

1.1 Description

Multi advanced miniature balanced-armature receiver for in-ear monitor and headset applications with full-band response. This transducer has balanced acoustic performance through low-frequency, mid-range frequency and high-frequency.

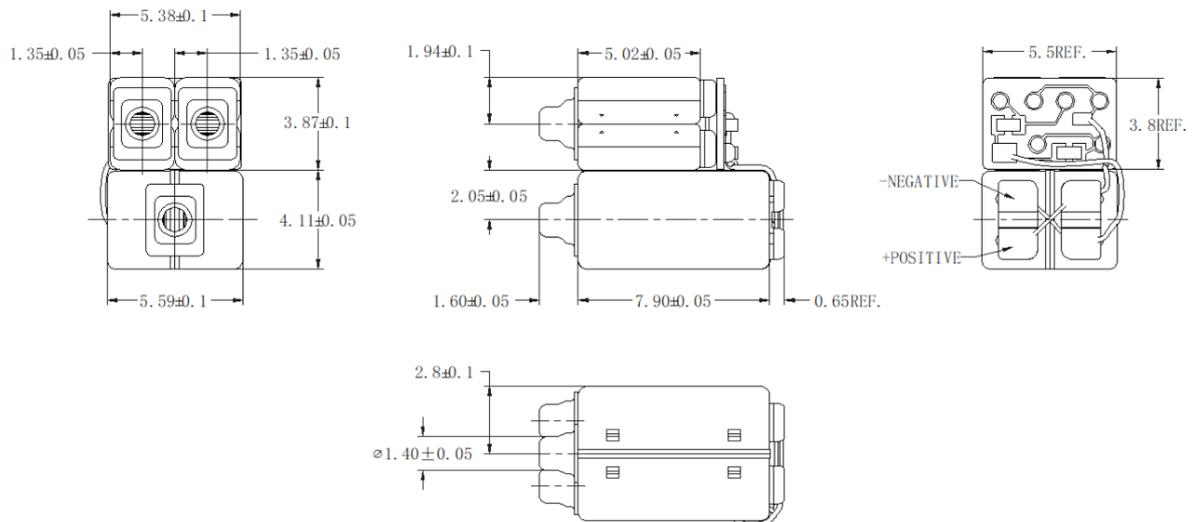
Name:	Hornet Series AMBA Receiver
Part Number:	BRC283C10013 REV 1.0

1.2 Construction Specification



Weight: 1.3 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

- A multi-way balanced armature system with added low frequency headroom
- Designed for pro-audio in-ear application
- Enables customized cross-over response to achieve target frequency response
- Outstanding efficiency
- Substantial maximum output
- Magnetic-radiation shielded
- Optimized mechanical shock resistance

1.4 Electro-acoustic Specifications

Test condition

- Acoustic tubing: Tubeless fixture
- Acoustic coupler: IEC711 coupler
- Constant voltage drive: 0.15V RMS
- Environment: 23°C, RH 50%

Acoustic Parameter I

Test Item		Nominal	Tolerance	Comments
Sensitivity(dB)	@20Hz	117.5	+/- 3.0	
	@200Hz	118.5	+/- 3.0	
	@500Hz	117	+/- 3.0	
	@1000Hz	117	+/- 3.0	
Peak1	Frequency (Hz)	2360	+/- 350	
	SPL(dB)	126	+/- 3.0	
Peak2	Frequency (Hz)	4750	+/- 500	
	SPL(dB)	127	+/- 3.0	
Peak3	Frequency (Hz)	11000	+/- 1500	
	SPL(dB)	119	+/- 3.0	
Maximum output @ Peak frequency (dB)		N/A	N/A	THD<10%

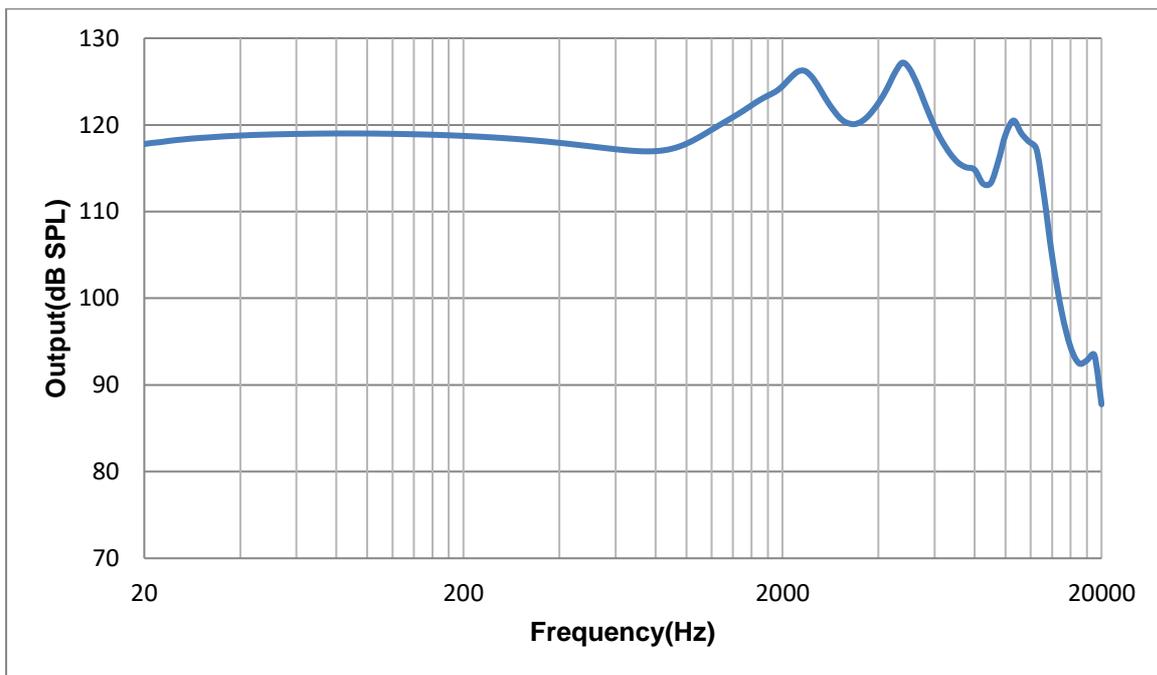
Acoustic Parameter II

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

Electric Parameter

Test Item		Nominal	Tolerance	Comments
Impedance(Ω)	@500Hz	18	+/- 15%	
	@1000Hz	31.5	+/- 15%	
DCR(Ω)		12.5	+/- 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%