

Name	Security Level
BELLSING™ Hornet Series BMBA Receiver	Open
Version	A Total of 4 Pages
REV X1	

BTC540C11025

Product Data Sheet

Prepared by: HUGH

Date: 2020-06-12

Auditor: _____

Date: _____

Approver: _____

Date: _____



Shenzhen Bellsing Acoustic Tech. Co., Ltd.

BTC540C11025 BMBA receiver

1.1 Description

Bellsing Miniature balanced-armature (BMBA) receiver. This transducer only can be used in consumer electronics.

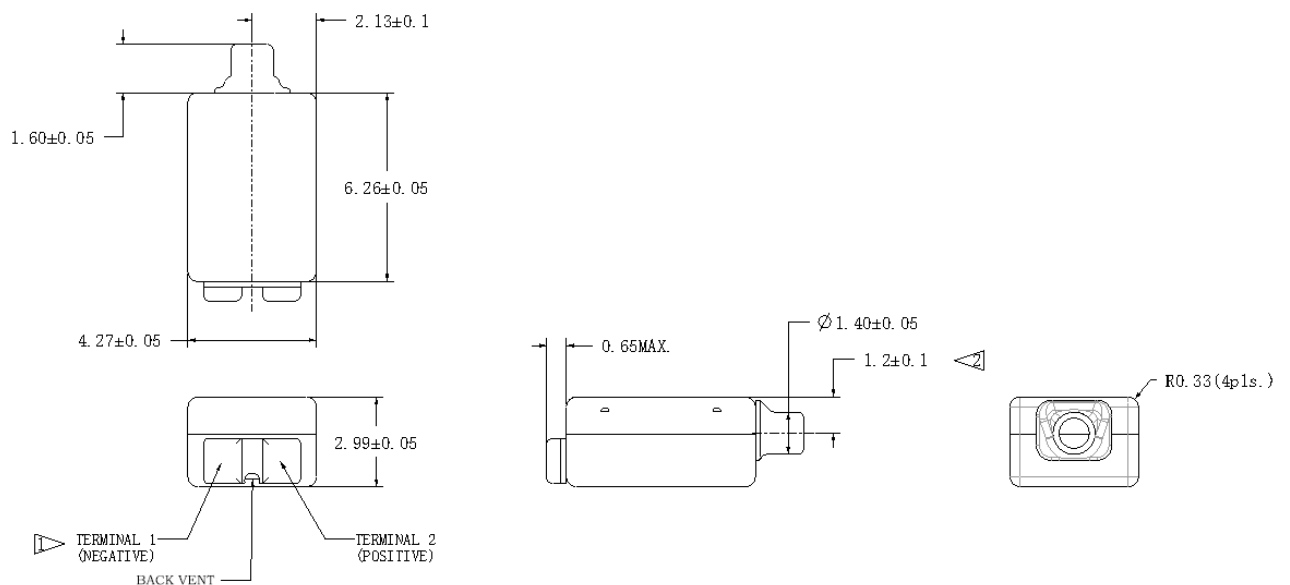
Name:	Hornet Series BMBA Receiver
Part Number:	BTC540C11025 REV X1

1.2 Construction Specification



Weight: 0.16 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

- Perfect package size for headset, TWS applications
- Outstanding efficiency
- Substantial maximum output

1.4 Electro-acoustic Specifications

Test condition

- Acoustic tubing: 10.0mm of 1.0mm diameter tubing
- Acoustic coupler: IEC711 coupler
- Constant voltage drive: 0.146V RMS
- Environment: 23°C, RH 50%

Acoustic Parameter I

Test Item		Nominal	Tolerance	Comments
Sensitivity(dB)	@20Hz	115	+/- 3.0	
	@200Hz	115.2	+/- 3.0	
	@500Hz	112.5	+/- 3.0	
	@1000Hz	111	+/- 3.0	
Peak1	Frequency (Hz)	2120	+/- 350	
	SPL(dB)	119.5	+/- 3.0	
Peak2	Frequency (Hz)	5000	+/- 500	
	SPL(dB)	111.5	+/- 3.0	
Maximum output@Peak frequency (dB)		N/A	N/A	THD<10%

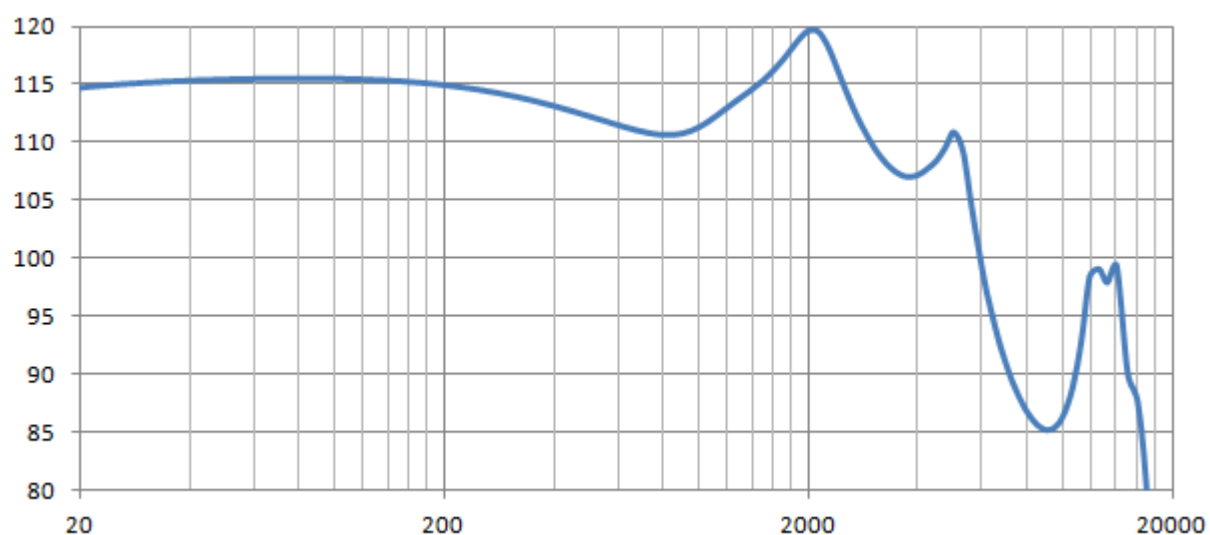
Acoustic Parameter II

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	45.1	+/- 15%	
	@1000Hz	82.5	+/- 15%	
DCR(Ω)		25	+/- 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%