

Name	Security Level
BELLSING™ BPS Receiver	Open
Version	A Total of 4 Pages
REV A	

BPS112CAA08

Product Data Sheet

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Date: 2022/11/30

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Date: 2022/11/30

Approver: _____

Date: _____



Shenzhen Bellsing Acoustic Tech. Co., Ltd.

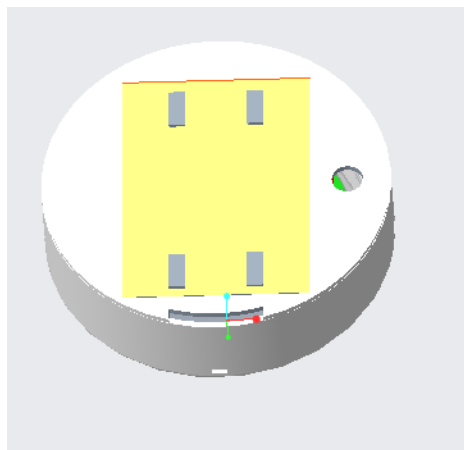
BPS112CAA08 BPS receiver

1.1 Description

BPS receiver is a specially designed acoustic transducer, using dynamic speaker technology but having a smaller size like a BA receiver. It has a full range balanced performance and is a good solution for In-ear monitor devices and other commercial hearing products.

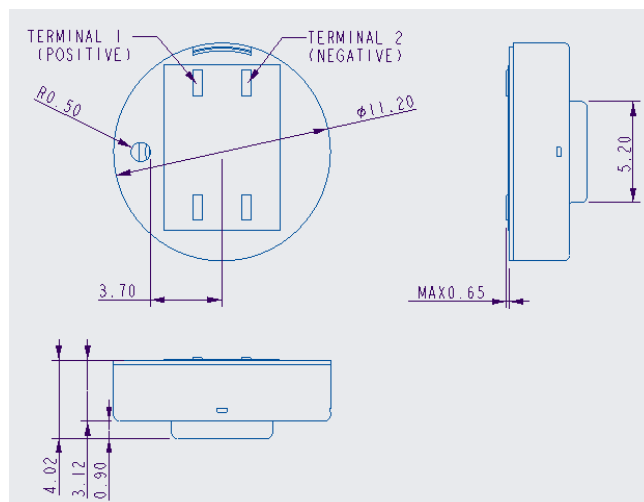
Name:	BPS Receive
Part Number:	BPS112CAA08 REV A

1.2 Construction Specification



Weight: 1.08 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 in-ear headsets, TWS and VR/AR devices.
- Planarized diaphragm and coil structure provides substantial sound pressure level.
- Full-range response through out audio frequencies.

1.4 Electro-acoustic Specifications

Test condition

- Acoustic coupler: IEC711 coupler
- Constant voltage drive: 0.126V RMS
- Environment: 23°C, RH 50%

Acoustic Parameter I

Test Item		Nominal	Tolerance	Comments
Sensitivity(dB)	@20Hz	127.5	+/- 3.0	
	@500Hz	131	+/- 3.0	
	@1000Hz	129	+/- 3.0	
Peak1	Frequency (Hz)	600	+/- 300	
	SPL(dB)	132	+/- 3.0	
Valley1	Frequency (Hz)	3750	+/- 500	
	SPL(dB)	97	Minimum	

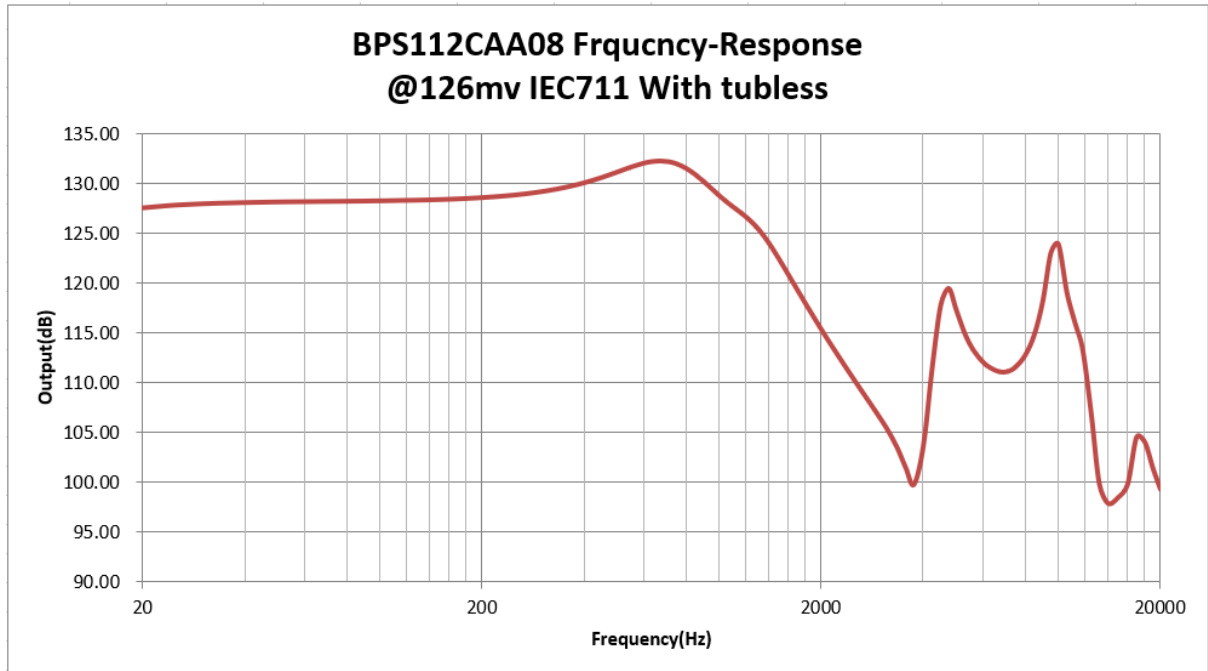
Acoustic Parameter II

Test Item		Nominal	Comments
THD(%)	20-5000hz	<5%	

Electric Parameter

Test Item		Nominal	Tolerance	Comments
Impedance	@500HZ	8.3	+/- 15%	
	@1000Hz	8.8	+/- 15%	
DCR(Ω)		8	+/- 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%