

# Introduction of Receivers

### Introduction

Sonion has a vast selection of receivers for hearing instruments ranging from different sizes to different impedance levels and SPL outputs. We can also accommodate a vast range of spouts and port locations, including the ability to attach a plastic spout for your custom applications.

For headsets, Sonion offers the choice of wire or flex print already assembled to the product. For special applications, gasket or mesh can be included. Note the contacts vary from product to product.

All hearing instrument receivers are based on a balanced armature design principle that offers the highest sound quality with low distortion. The receivers have features to block magnetic radiation and extra protection from shock. In some models the frequency response is shaped based on the need of the application, peaks can be dampened and low or high frequencies may be filtered out.

### Overview of the Receivers

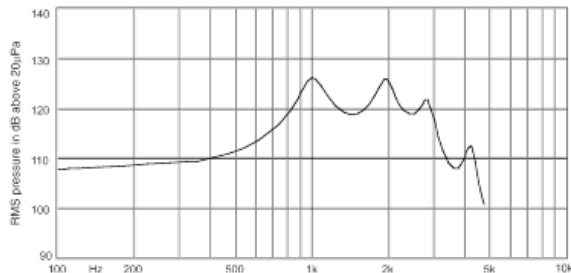
Family	Sensitivity at 500 Hz (0.35 mVA)	Max output at 500 Hz (5% THD)	Max Peak Output in BTE (50 mVA)	Max Peak Output in ITE (50 mVA)	Dimensions			Volume mm <sup>3</sup>
					L	W	H	
<b>Singles</b>								
<b>4100</b>	93.5	100	125	115	5.00 [0.197]	2.70 [0.106]	0.98 [0.039]	13.2
<b>E25S</b>	97	107	132	122	5.98 [0.235]	2.55 [0.100]	1.87 [0.074]	28.5
<b>2600U</b>	104	113	138	124	5.20 [0.205]	3.05 [0.120]	2.60 [0.101]	41.2
<b>2600U/7</b>	104	113	138	124	5.20 [0.205]	3.28 [0.129]	2.72 [0.107]	46.8
<b>2300</b>	104	113	138	129	6.30 [0.248]	4.29 [0.169]	2.96 [0.117]	80.0
<b>2400</b>	104	113	136	125	6.30 [0.248]	4.29 [0.169]	2.96 [0.117]	80.0
<b>3100</b>	106.5	117	135	127	7.87 [0.310]	4.09 [0.161]	2.80 [0.110]	90.1
<b>3500</b>	108.5	119	137	129	7.87 [0.310]	4.09 [0.161]	2.80 [0.110]	90.1
<b>1700</b>	106	115	138	129	7.95 [0.313]	5.60 [0.220]	4.07 [0.160]	181.2
<b>1900</b>	109	122	139	129	7.95 [0.313]	5.60 [0.220]	4.07 [0.160]	181.2
<b>2000</b>	113.5	127	140	133	9.45 [0.372]	7.13 [0.281]	4.10 [0.161]	276.3
<b>Duals</b>								
<b>4400</b>	97	106	132	122	5.00 [0.197]	2.70 [0.106]	1.96 [0.077]	26.5
<b>E50D</b>	100	113	138	128	5.93 [0.234]	3.10 [0.122]	2.55 [0.100]	46.9
<b>2800</b>	107	119	140	130	5.25 [0.207]	3.05 [0.120]	5.26 [0.207]	84.2
<b>E90D</b>	105.5	118	138	132	6.10 [0.240]	4.30 [0.169]	3.40 [0.134]	89.2
<b>3300U</b>	110.5	123	140	133	7.87 [0.310]	5.20 [0.205]	4.09 [0.161]	167.4
<b>3700U</b>	113	125	142	135	7.87 [0.310]	5.20 [0.205]	4.09 [0.161]	167.4
<b>3300</b>	110.5	123	140	133	7.87 [0.310]	5.60 [0.220]	4.09 [0.161]	180.3
<b>3700</b>	113	125	142	135	7.87 [0.310]	5.60 [0.220]	4.09 [0.161]	180.3
<b>3700Q</b>	115	127	143	136	7.87 [0.310]	5.62 [0.221]	5.08 [0.200]	224.7
<b>3800</b>	121.5 (vented)	135 (vented)	143 (vented)	140 (vented)	7.87 [0.310]	5.60 [0.220]	4.09 [0.161]	180.3

All performance values are measured under acoustical loading with a 2cc coupler.

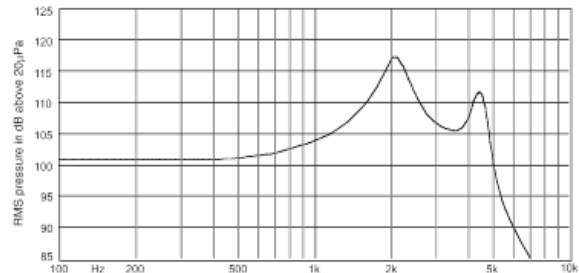
## Response curve

### Tubing/Couplers

The type of coupler used for the measurement is of major influence on the frequency response. For example: if a BTE coupler is used a number of 5 peaks can be found in the response. The same receiver measured on ITE coupler will show only 2 peaks.



**Typical Response BTE**



**Typical Response ITE**

**Each peak has its origin. For the BTE coupler the peaks can be explained as follows:**

- Peak 1: resonance of coupler volume
- Peak 2: set by resonance of the driver
- Peak 3: front volume and coupler tube length, but also compensation hole in diaphragm
- Peak 4: coupler
- Peak 5: hinge function of diaphragm.

**The peaks found using ITE couplers have the following explanation:**

- Peak 1: resonance of coupler volume and driver
- Peak 2: length of the tubing, diaphragm properties including compensation hole and frontvolume

### Response shaping in receivers

The Sonion receiver program shows several response curves which are possible within one receiver family:

- Standard response: no means of damping
- Damped response type I: damping by means of a damping screen. Output at peaks is affected. No change in low frequency roll off
- Damped response type II: damping by means of a damping screen and internal modifications. These modifications consist of a number of five holes in the diaphragm instead of one compensation hole. The result is low frequency roll off, a low output at second peak and a damped first peak.
- Damped response type III: damping by means of internal modifications only. It consists of 5 holes in the diaphragm. The result is low frequency roll off, a damped second peak, but an undamped first peak.
- Back vented receivers: A large hole in the back volume of the receiver creates additional low frequency output. Especially useful in woofers for pro-audio applications or in UltraPower BTEs (note: to prevent feedback the receiver should be encapsulated inside a closed can).
- Tuned vent receivers: A small hole in the back volume of the receiver creates well controlled additional output at the very low frequencies (below 100Hz).

Special response curves can be discussed on request.

### Electrical parameters

The receiver will be driven from a power amplifier. In the hearing aid industry several types of amplifiers are used for which each type has its preferred receiver type.

Amplifiers are based upon several principles. The following classes are typically used.

#### **Class A amplifier ► Receiver: ST type with bias**

Single transistor output stage. In the set-up the transistor DC setting current is also going through the receiver coil.

#### **Class B amplifier ► Receiver: CT type no bias**

2 transistor output stage. Often used in high power applications. The output stage switches the signal over both receiver coil halves.

#### **Class D amplifier ► Receiver: ST type, zero bias with preferred 2:1 impedance ratio.**

Amplifier with an H-bridge output stage which is switched at a very high frequency (150 kHz to 5 MHz). Audio signal restored by modulation of pulse width or pulse density at clock frequency. This type of amplifier is found as output stage on DSP hybrids.

### Coils

We can distinguish two types of coils:

ST - Standard two-terminal receiver	
Biased	To be used in Class A applications
Non-biased	To be used in voltage-driven applications like Class D
CT - Centre tapped receiver with three terminals	
Non-biased	To be used in push pull applications

The bias current ranges from 0 to 6.0mA and depends on impedance and  $R_{DC}$ .

### Impedance and $R_{DC}$

The impedance which is determined by the coil is limited by the coil size, maximum number of windings and wire gauge.

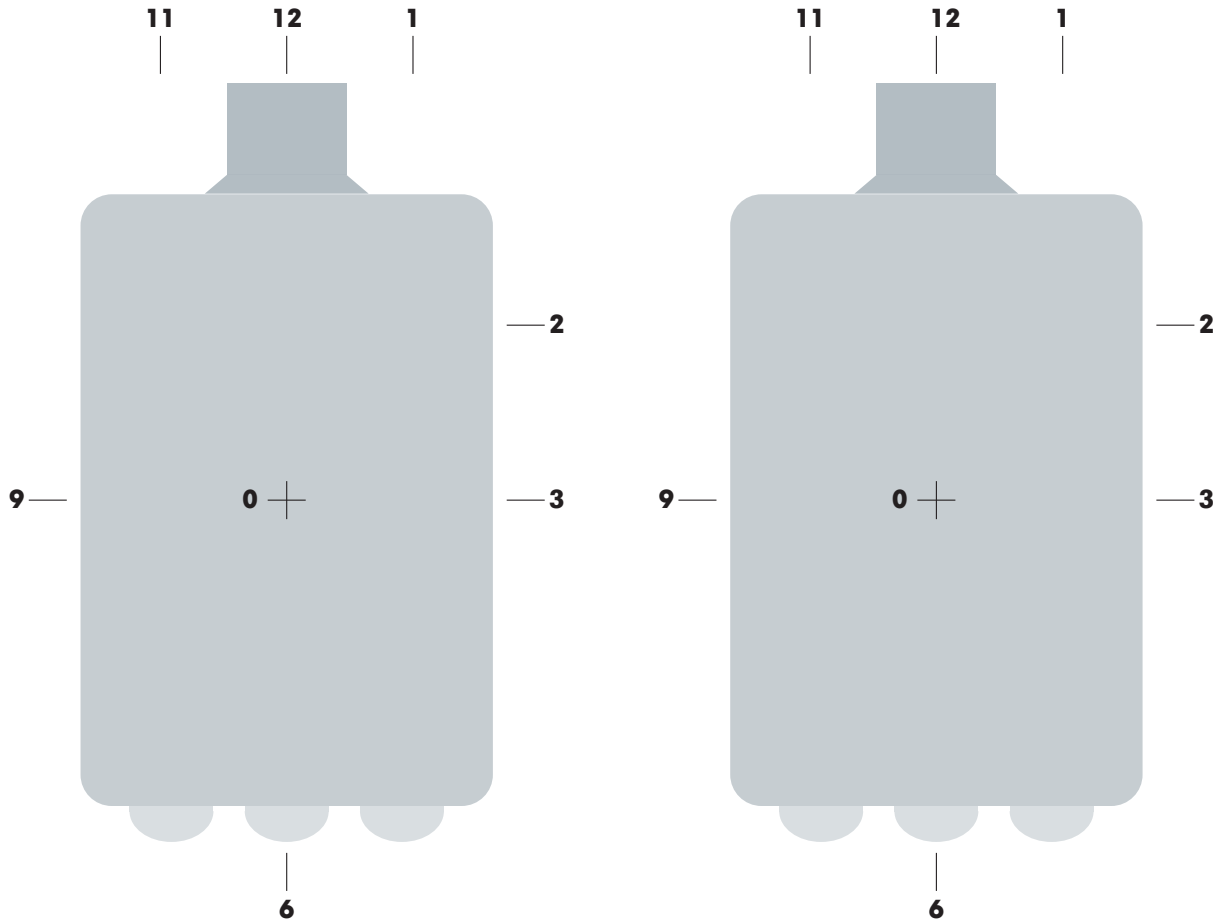
The value of the DC resistance  $R_{DC}$  is limited due to the relation of  $R_{DC}$  with the impedance. The ratio between the impedance and  $R_{DC}$  of the receiver can approximately be:

$Z_{coil} : R_{DC} = 4 : 1$  To be used in current driven applications.

$Z_{coil} : R_{DC} = 2 : 1$  Has less intermodulation distortion, is better suitable for voltage-driven applications.

### Schematic of port locations

View: looking at the front (cover) of the receiver. The numbers correspond with positions on a clock face with terminals at 6 o'clock and they denote the location of the signal port. Letters give further information on port location and type.



**Single receiver**

**Dual receiver**

#### Standard positions



**s** tube on center line of thickness

#### Other positions



**c** tube off center line of thickness

















**n** no tube



**j** spout on top of cover

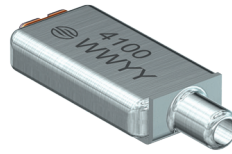
### Size comparison

		Output & Size						
<b>SINGLE</b>								
								
	<b>4100</b> World's smallest	<b>E25S</b> RIC optimized	<b>2600U</b> High efficiency Great fit rate	<b>2300</b> Versatile & dependable	<b>3500</b> Slim power	<b>1900</b> Cost efficient power class	<b>2000</b> Legendary Super Power	
<b>Size:</b>	13mm <sup>3</sup>	28mm <sup>3</sup>	41 mm <sup>3</sup>	80 mm <sup>3</sup>	90 mm <sup>3</sup>	181 mm <sup>3</sup>	276 mm <sup>3</sup>	
<b>Efficiency*:</b>	93.5 dB	97 dB	104 dB	104 dB	108.5 dB	109 dB	113.5 dB	
<b>DUAL</b>								
								
	<b>4400</b> World's smallest dual receiver	<b>E50D</b> 3G dual receiver technology	<b>2800</b> Highly efficient dual power class	<b>E90D</b> Fit for power	<b>3300U</b> Standard power superior magrad	<b>3700U</b> Low frequency power boost	<b>3800</b> Venting for highest output	
<b>Size:</b>	27 mm <sup>3</sup>	47 mm <sup>3</sup>	84 mm <sup>3</sup>	89 mm <sup>3</sup>	167 mm <sup>3</sup>	167 mm <sup>3</sup>	180 mm <sup>3</sup>	
<b>Efficiency*:</b>	97 dB	100 dB	107 dB	105.5 dB	110.5 dB	113 dB	121.5 dB	

\*) Efficiency at 500 Hz (0.35 mVA) measured in 2CC coupler

### The 4100 receiver

# World's Smallest

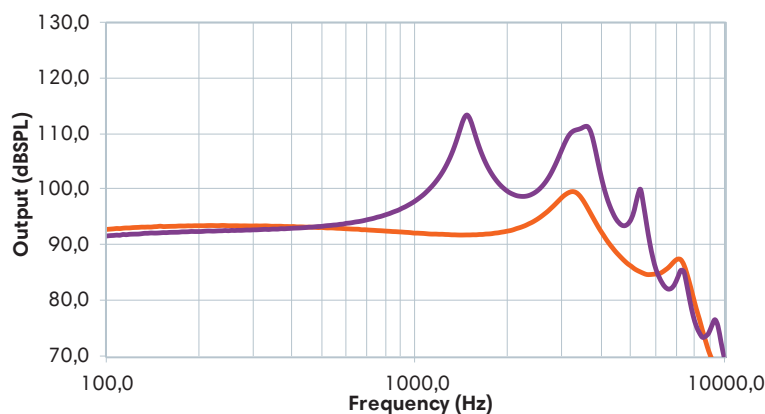


### Description

The 4100 receiver is part of our 4000-platform and it the world's smallest receiver with less than 1 mm thickness. This is made possible with the proprietary and patented flat motion receiver technology – integrating the membrane and armature into one. Be surprised: The 4100 offers impressive output for its size. Bring ideas to life. The 4100 receiver can go where no receiver has been able to go before, opening a range of opportunities: Deepfit, tinnitus masking, pediatrics, vibration sensors,.....

### Typical response curve

Measurement conditions: 0.35 mVA into 2CC ITE (orange) and 2CC BTE (purple).



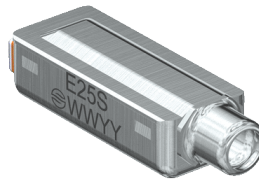
Performance	
<b>Dimensions</b>	0.98 x 2.70 x 5.00 mm
<b>Volume</b>	13.2 mm <sup>3</sup>
<b>Efficiency 0.35mVA at 500 Hz*</b>	93.5 dB SPL
<b>Max LF Output 5% THD at 500 Hz*</b>	100 dB SPL
<b>Max Peak Output 50 mVA at 500 Hz*</b>	115 dB SPL
<b>Shock</b>	12 kg

\* 2CC ITE

Features
The world's smallest receiver, with a volume of only 13.2 mm <sup>3</sup>
Ideal for Deep Fitting applications
For pediatric use
Tinnitus Masking Applications
MPO 125 dB SPL in 711 coupler

### The E25S receiver

# RIC Optimized

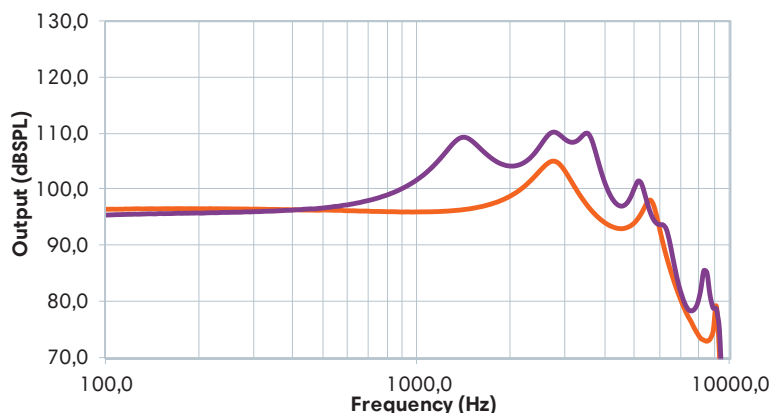


#### Description

E25S receiver has minimized cross section for better fit rates, especially in RIC applications. With the efficient single motor design it offers a cost effective solutions without compromising the performance. The E-series motor construction gives by design a low magnetic radiation.

#### Typical response curve

Measurement conditions: 0.35 mVA into 2CC ITE (orange) and 2CC BTE (purple).



Performance	
<b>Dimensions</b>	5.98 x 2.55 x 1.87 mm
<b>Volume</b>	28.5 mm <sup>3</sup>
<b>Efficiency 0.35mVA at 500 Hz*</b>	97 dB SPL
<b>Max LF Output 5% THD at 500 Hz*</b>	107 dB SPL
<b>Max Peak Output 50 mVA at 500 Hz*</b>	122 dB SPL
<b>Shock</b>	12 kg

\* 2CC ITE

Features
Optimized for RIC applications
Minimized cross section
Efficient single motor design
Reduced vibration in spout direction



### The 2600(U) receiver

# High Efficiency Great Fit Rate



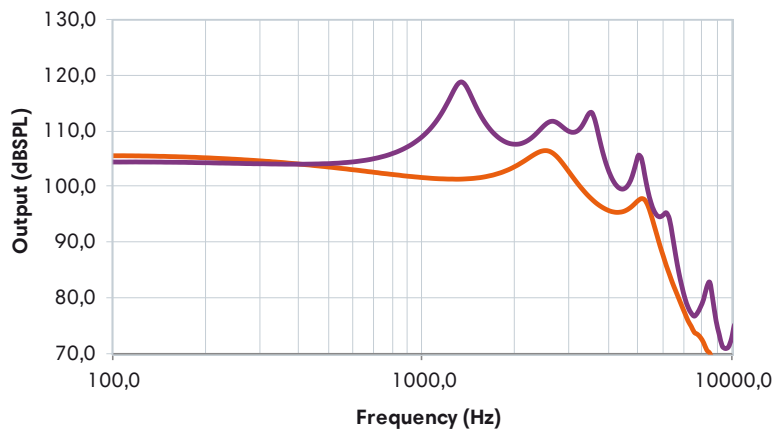
#### Description

Sonion 2600(U) receiver is the industry standard receiver. It has high efficiency and high fit rate. The 2600 is ideal for miniBTEs applications. High output up to 126 dB SPL.

Mu-metal flak-jacket versions are available to improve the robustness (2600/3) and magnetic radiation (2600/7). We also offer several port locations and response curves.

#### Typical response curve

Measurement conditions: 0.35 mVA into 2CC ITE (orange) and 2CC BTE (purple).



Performance	
<b>Dimensions</b>	5.25 x 3.05 x 2.55 mm
<b>Volume</b>	41 mm <sup>3</sup>
<b>Efficiency 0.35mVA at 500 Hz*</b>	104 dB SPL
<b>Max LF Output 5% THD at 500 Hz*</b>	113 dB SPL
<b>Max Peak Output 50 mVA at 500 Hz*</b>	126 dB SPL
<b>Shock</b>	14 kg

\* 2CC ITE

#### Features

Optimized for low current consumption

Wideband and shielded versions available

Improved shock performance and robustness

### The 2300 receiver

# Versatile & Dependable

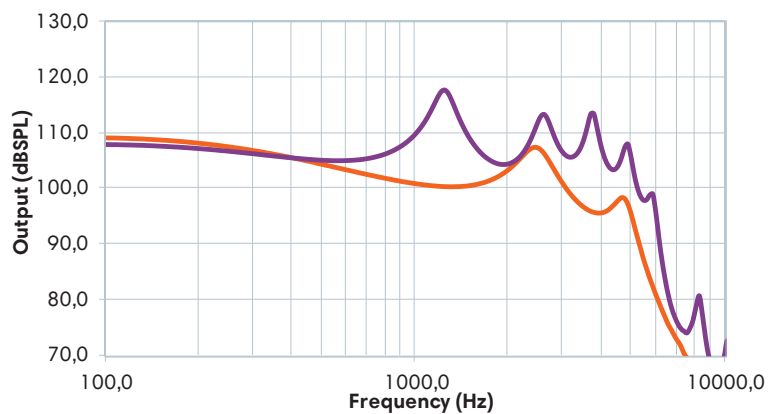


### Description

The 2300 single receivers are good all round receivers that offer an excellent fit rate across most medium power hearing instruments. They are versatile and cost efficient.

### Typical response curve

Measurement conditions: 0.35 mVA into 2CC ITE (orange) and 2CC BTE (purple).



Performance	
<b>Dimensions</b>	2.96 x 4.29 x 6.30 mm
<b>Volume</b>	80 mm <sup>3</sup>
<b>Efficiency 0.35mVA at 500 Hz*</b>	104 dB SPL
<b>Max LF Output 5% THD at 500 Hz*</b>	113 dB SPL
<b>Max Peak Output 50 mVA at 500 Hz*</b>	129 dB SPL
<b>Shock</b>	14 kg

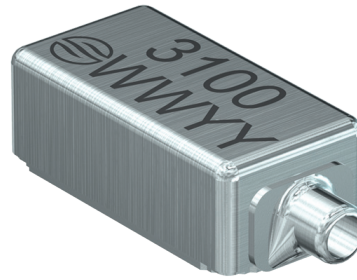
\* 2CC ITE

### Features

- All-round use in BTEs/ITEs
- High output, great efficiency
- 2400 receiver is intended for high volume applications

The 31/3500 receiver

# Slim Power



### Description

The 3000 series receiver is ideal for applications where wide band frequency response, small size and high output are required. The E-shape armature provides high saturation level and excellent vibration properties.

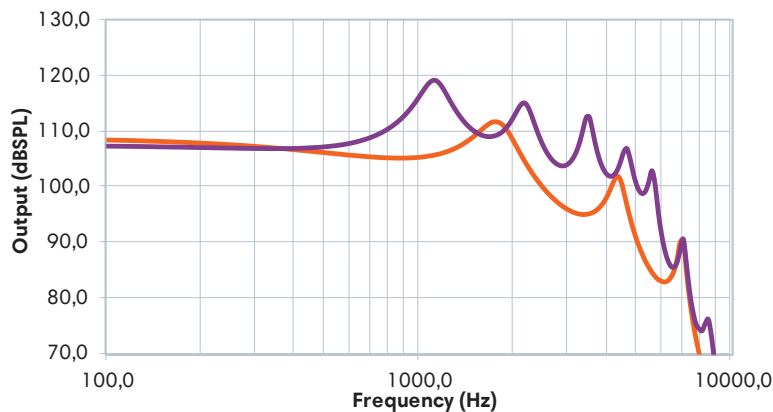
Portfolio includes standard output, high output and wideband receiver options.

Ideal for Power RIC, Power ITE/ITC and BTE applications.

Based on our proven 3000-line technology.

### Typical response curve

Measurement conditions: 0.35 mVA into 2CC ITE (orange) and 2CC BTE (purple).



Performance	
<b>Dimensions</b>	7.9 x 4.1 x 2.8 mm
<b>Volume</b>	90.1 mm <sup>3</sup>
<b>Efficiency 0.35mVA at 500 Hz*</b>	106.5 dB SPL
<b>Max LF Output 5% THD at 500 Hz*</b>	117 dB SPL
<b>Max Peak Output 50 mVA at 500 Hz*</b>	127 dB SPL
<b>Shock</b>	12 kg

\* 2CC ITE

Features
Portfolio includes standard output, high output and wideband receiver options
Ideal for Power RIC, Power ITE/ITC and BTE applications
Based on our proven 3000-line technology

### 1700 series receivers

# Developed for IEM

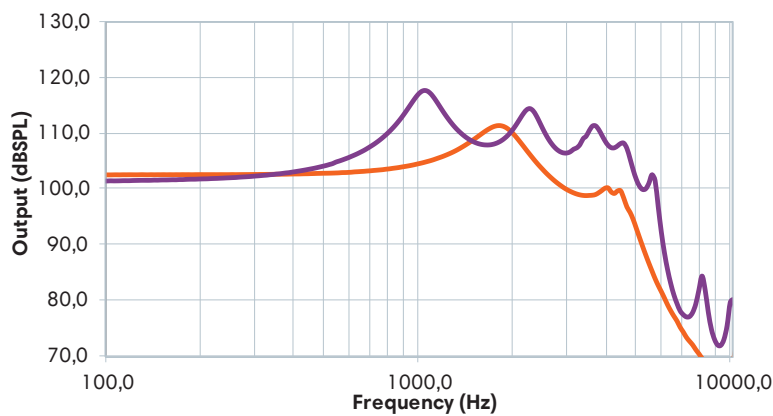


### Description

The 1700 series is designed for 'In The Ear Monitoring' applications. Available port locations for the 1700: 12c.

### Typical response curve

Measurement conditions: 0.35 mVA into 2CC ITE (orange) and 2CC BTE (purple).



Performance	
<b>Dimensions</b>	7.95 x 5.60 x 4.07 mm
<b>Volume</b>	181.2 mm <sup>3</sup>
<b>Efficiency 0.35mVA at 500 Hz*</b>	106 dB SPL
<b>Max LF Output 5% THD at 500 Hz*</b>	115 dB SPL
<b>Max Peak Output 50 mVA at 500 Hz*</b>	129 dB SPL
<b>Shock</b>	12 kg

\* 2CC ITE

Features
Developed for IEM products
High output with low THD
Broadband
Good sound quality

### The 1900 series receivers

# High power Cost efficient



#### Description

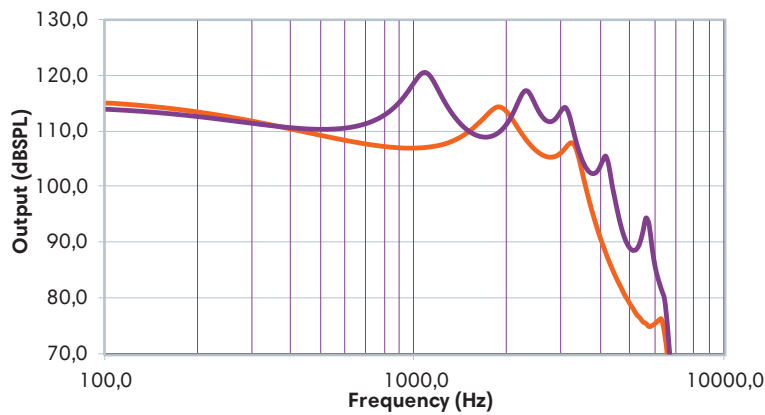
The 1900 series is best suited for “Behind The Ear” applications.

Available port locations for the 1900 are: 12s, 12c, 1s.

The available response curve is the standard response.

#### Typical response curve

Measurement conditions: 0.35 mVA into 2CC ITE (orange) and 2CC BTE (purple).



Performance	
<b>Dimensions</b>	7.95 x 5.60 x 4.07 mm
<b>Volume</b>	181 mm <sup>3</sup>
<b>Efficiency 0.35mVA at 500 Hz*</b>	109 dB SPL
<b>Max LF Output 5% THD at 500 Hz*</b>	122 dB SPL
<b>Max Peak Output 50 mVA at 500 Hz*</b>	139 dB SPL
<b>Shock</b>	5.5 kg

\* 2CC BTE

#### Features

- For BTE applications
- Standard and vented types
- Wide variety of spout locations

### The 2000 receiver

# Legendary Super Power



### Description

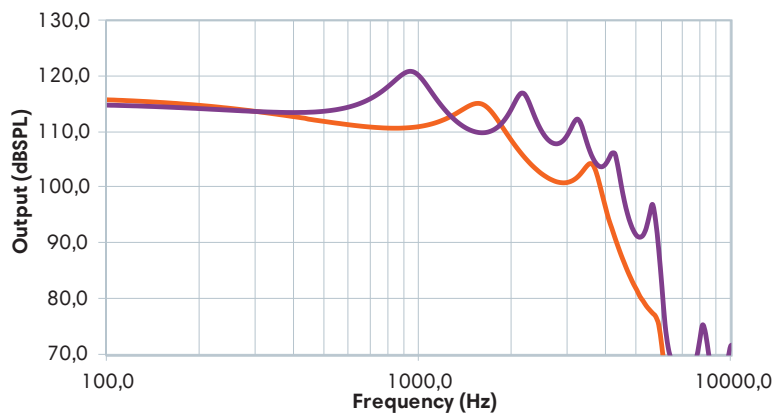
The 2000 series is best suited for 'Behind The Ear' applications.

Available port locations for the 2000: 12s, 12c, 1s, 1e, 2e, 11c, 5s, 6n.

The available response curve is the standard curve.

### Typical response curve

Measurement conditions: 0.35 mVA into 2CC ITE (orange) and 2CC BTE (purple).



Performance	
<b>Dimension</b>	9.5x7.1x4.1 mm
<b>Volume</b>	276 mm <sup>3</sup>
<b>Efficiency 0.35mVA at 500 Hz*</b>	113.5 dB SPL
<b>Max LF Output 5% THD at 500 Hz*</b>	127 dB SPL
<b>Max Peak Output 50 mVA at 500 Hz*</b>	143 dB SPL
<b>Shock</b>	4 kg

\* 2CC BTE

### Features

Ideal for ultra power BTE's

Highest output receiver MPO of 143 dB SPL

Vented versions available for low frequency output

### 4400 series receivers

# World's Smallest Dual Receiver

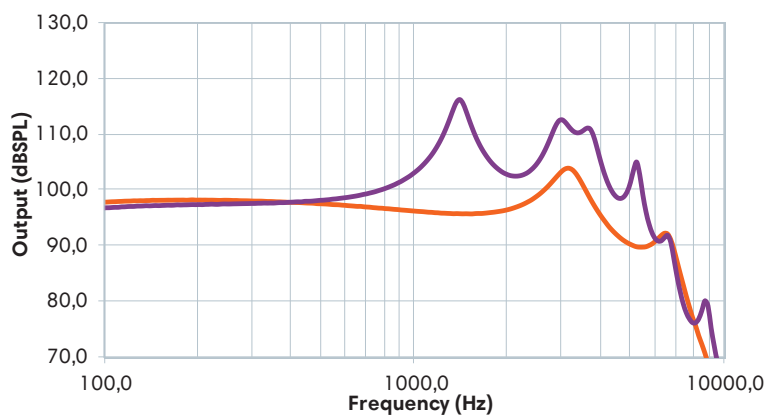


### Description

The 4400 is the best in class dual receiver from Sonion. It is the ultimate receiver with dual motor that can reduce vibration and maintain low magnetic radiation. With its only 27 mm<sup>3</sup> small size, the receiver can provide a high output of 122 dB SPL.

### Typical response curve

Measurement conditions: 0.35 mVA into 2CC ITE (orange) and 2CC BTE (purple).



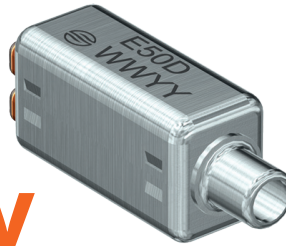
Performance	
<b>Dimensions</b>	5.00 x 2.70 x 1.96 mm
<b>Volume</b>	26.5 mm <sup>3</sup>
<b>Efficiency 0.35mVA at 500 Hz*</b>	97 dB SPL
<b>Max LF Output 5% THD at 500 Hz*</b>	106 dB SPL
<b>Max Peak Output 50 mVA at 500 Hz*</b>	122 dB SPL
<b>Shock</b>	12 kg

\* 2CC ITE

Features
World smallest dual receiver
Optimized for use in CIC, ITE and RIC/RITE applications.
Maximum output of 122 dB SPL

The E50D receiver

# 3G dual technology

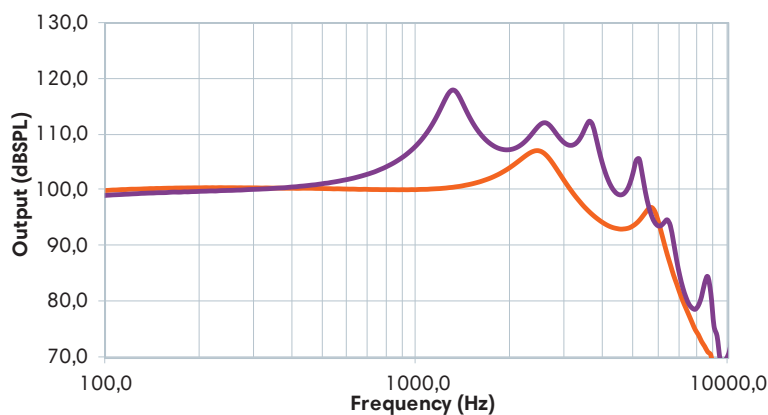


### Description

With the E-series Sonion launched it's 3rd generation dual receiver technology. E50D motor construction results in a low magnetic radiation without any trade-offs. This makes it ideal in miniBTE and ITE applications in combination with a telecoil.

### Typical response curve

Measurement conditions: 0.35 mVA into 2CC ITE (orange) and 2CC BTE (purple).



Performance	
<b>Dimensions</b>	5.9 x 2.6 x 3.1 mm
<b>Volume</b>	46.9 mm <sup>3</sup>
<b>Efficiency 0.35mVA at 500 Hz*</b>	100 dB SPL
<b>Max LF Output 5% THD at 500 Hz*</b>	113 dB SPL
<b>Max Peak Output 50 mVA at 500 Hz*</b>	128 dB SPL
<b>Shock</b>	12 kg

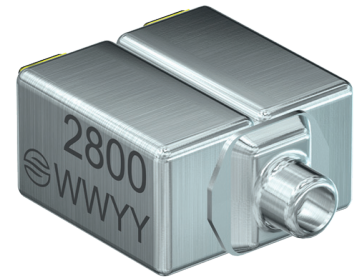
\* 2CC ITE

Features
3 <sup>rd</sup> generation dual technology
Low magnetic radiation
Low distortion
A versatile moderate power receiver



### The 2800U series receivers

# High efficiency dual power

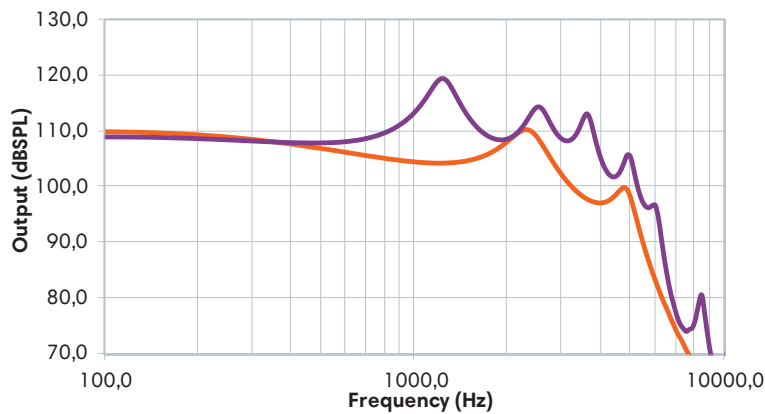


### Description

The 2800U series is designed for “Behind The Ear” and “In The Ear” applications. This product is a dual driver system consisting of two 2600U drivers.

### Typical response curve

Measurement conditions: 0.35 mVA into 2CC ITE (orange) and 2CC BTE (purple).



Performance	
<b>Dimensions</b>	5.25 x 3.05 x 5.10 mm
<b>Volume</b>	84 mm <sup>3</sup>
<b>Efficiency 0.35mVA at 500 Hz*</b>	107 dB SPL
<b>Max LF Output 5% THD at 500 Hz*</b>	119 dB SPL
<b>Max Peak Output 50 mVA at 500 Hz*</b>	130 dB SPL
<b>Shock</b>	14 kg

\* 2CC ITE

### Features

Using the high efficiency of a dual 2600 receiver: high output in a small package

Great fit rate for power ITE applications

Based on our proven 2600-line technology

### The E90D receiver

# Fit for Power

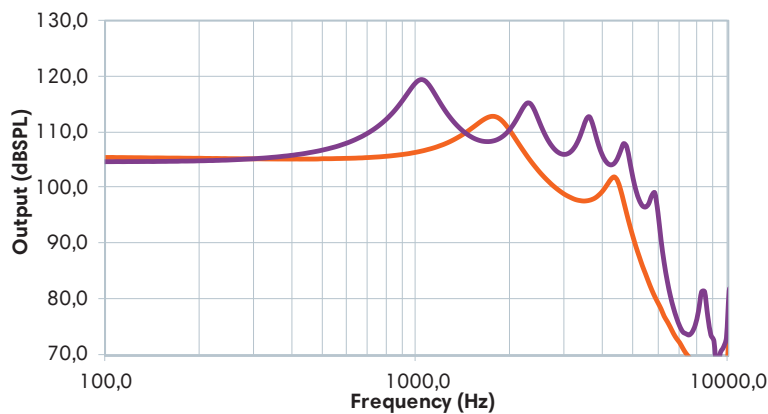


### Description

The E90D offers high maximum output with a very low magnetic radiation. This makes it an ideal receiver for BTE and power BTE applications where you don't want to compromise on performance.

### Typical response curve

Measurement conditions: 0.35 mVA into 2CC ITE (orange) and 2CC BTE (purple).



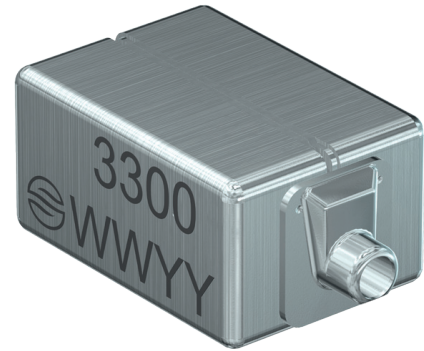
Performance	
<b>Dimensions</b>	6.1x4.3x3.4 mm
<b>Volume</b>	89.2 mm <sup>3</sup>
<b>Efficiency 0.35mVA at 500 Hz*</b>	105.5 dB SPL
<b>Max LF Output 5% THD at 500 Hz*</b>	118 dB SPL
<b>Max Peak Output 50 mVA at 500 Hz*</b>	132 dB SPL
<b>Shock</b>	12 kg

\* 2CC ITE

Features
Dual receiver
Best in class, LF max output
Low magrad
Rounded corners for better fit rates
Great for Power BTEs and RICs

The 3300/3700 series receivers

# Power Dual Receiver



### Description

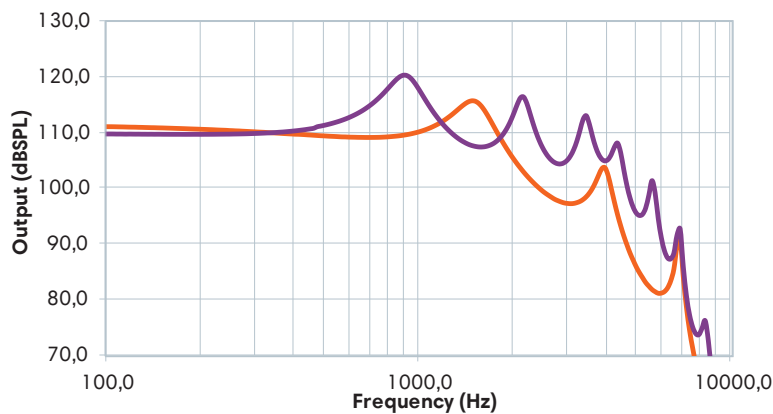
The 3300 series is designed for “Behind The Ear” applications.

Available port locations for the 3300 are: 12s, 1s.

The standard dual driver receiver is the 3300. The 3700 version has smaller bandwidth compared to the 3300 but has extra output available.

### Typical response curve

Measurement conditions: 0.35 mVA into 2CC ITE (orange) and 2CC BTE (purple).



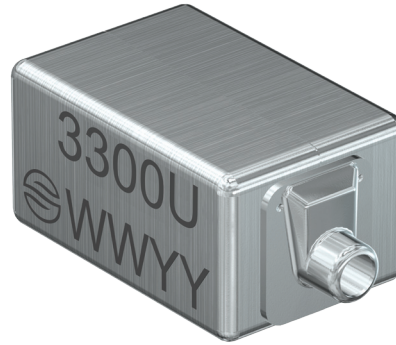
Performance	
<b>Dimensions</b>	7.9 x 5.6 x 4.1 mm
<b>Volume</b>	180 mm <sup>3</sup>
<b>Efficiency 0.35mVA at 500 Hz*</b>	110.5 dB SPL
<b>Max LF Output 5% THD at 500 Hz*</b>	123 dB SPL
<b>Max Peak Output 50 mVA at 500 Hz*</b>	140 dB SPL
<b>Shock</b>	12 kg

\* 2CC BTE

Features
Dual receiver
Up to 30dB reduction in mechanical vibration
Perfect for higher power premium BTE applications
3700: High output version

### The 3300U receiver

# Extend the Reach!



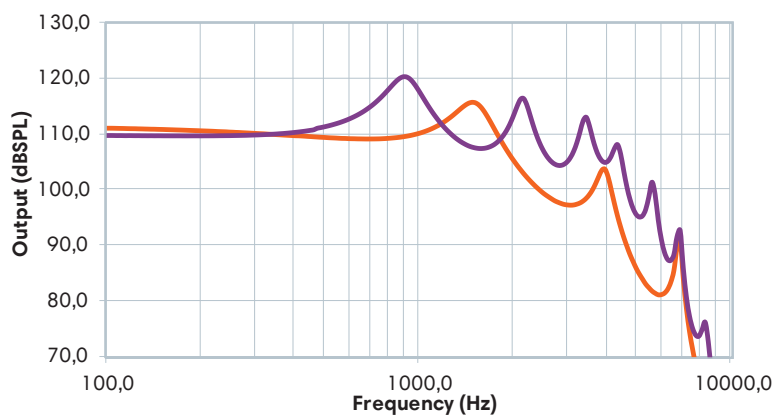
### Description

The 33/3700U has reduced thickness to increase the fit rate. It has the same acoustical DNA as the standard 33/3700 receivers. Secondly the magnetic radiation has been improved, giving 10-20 reduction compared to the standard products.

This makes it ideal for super power BTEs or other power applications.

### Typical response curve

Measurement conditions: 0.35 mVA into 2CC ITE (orange) and 2CC BTE (purple).



Performance	
<b>Dimensions</b>	7.9 x 5.2 x 4.1 mm
<b>Volume</b>	167.4 mm <sup>3</sup>
<b>Efficiency 0.35mVA at 500 Hz*</b>	110.5 dB SPL
<b>Max LF Output 5% THD at 500 Hz*</b>	123 dB SPL
<b>Max Peak Output 50 mVA at 500 Hz*</b>	140 dB SPL
<b>Shock</b>	12 kg

\* 2CC BTE

Features
Dual receiver
Premium higher power receiver
Standard 3300/3700 with reduced magrad and less height
3700U: High output version with 142 dB output

### The 3800 receiver

# Ultra High Power



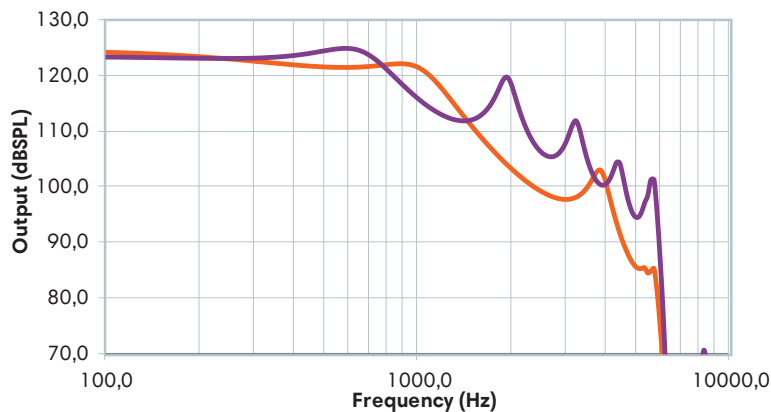
#### Description

3800 offers ultra high power in a small size. The dual design makes it possible to reach high gain levels in a small super power BTE design.

This receiver uses back venting to further optimize the low frequency output. It is also a unique woofer for pro-audio applications.

#### Typical response curve

Measurement conditions: 0.35 mVA into 2CC ITE (orange) and 2CC BTE (purple).



Performance	
<b>Dimensions</b>	7.9x5.6x6.1 mm
<b>Volume</b>	180 mm <sup>3</sup>
<b>Efficiency 0.35mVA at 500 Hz*</b>	121.5 dB SPL
<b>Max LF Output 5% THD at 500 Hz*</b>	127 dB SPL
<b>Max Peak Output 50 mVA at 500 Hz*</b>	143 dB SPL
<b>Shock</b>	8 kg

\* 2CC BTE

Features
Dual receiver
Up to 30 dB reduction in mechanical vibration
Perfect for higher power premium BTE applications
Back vented receiver

### The 3700Q receiver

# Low frequency power boost

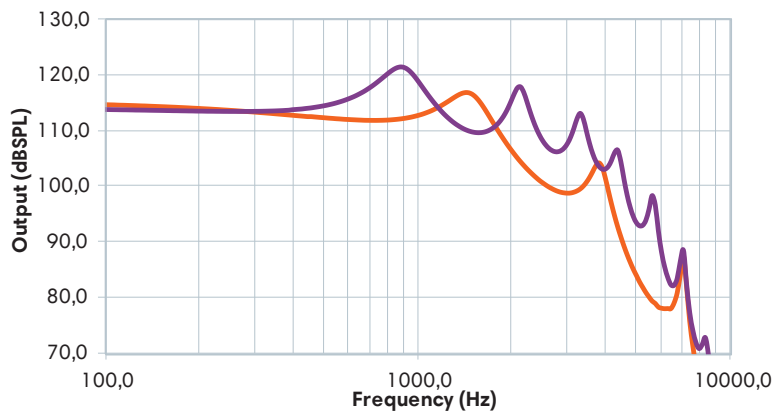


#### Description

3700Q offers a low frequency power boost. Ideal for super power BTE applications.

#### Typical response curve

Measurement conditions: 0.35 mVA into 2CC ITE (orange) and 2CC BTE (purple).



Performance	
<b>Dimensions</b>	7.9 x 5.7 x 5.1 mm
<b>Volume</b>	225 mm <sup>3</sup>
<b>Efficiency 0.35mVA at 500 Hz*</b>	115 dB SPL
<b>Max LF Output 5% THD at 500 Hz*</b>	127 dB SPL
<b>Max Peak Output 50 mVA at 500 Hz*</b>	142 dB SPL
<b>Shock</b>	8 kg

\* 2CC BTE

Features
Dual receiver
Up to 30 dB reduction in mechanical vibration
Added volume for increased LF output