# Data Sheet

Receiver 2354

## Description

Subminiature magnetic receiver (Balanced Armature Type) for use in In The Ear applications.

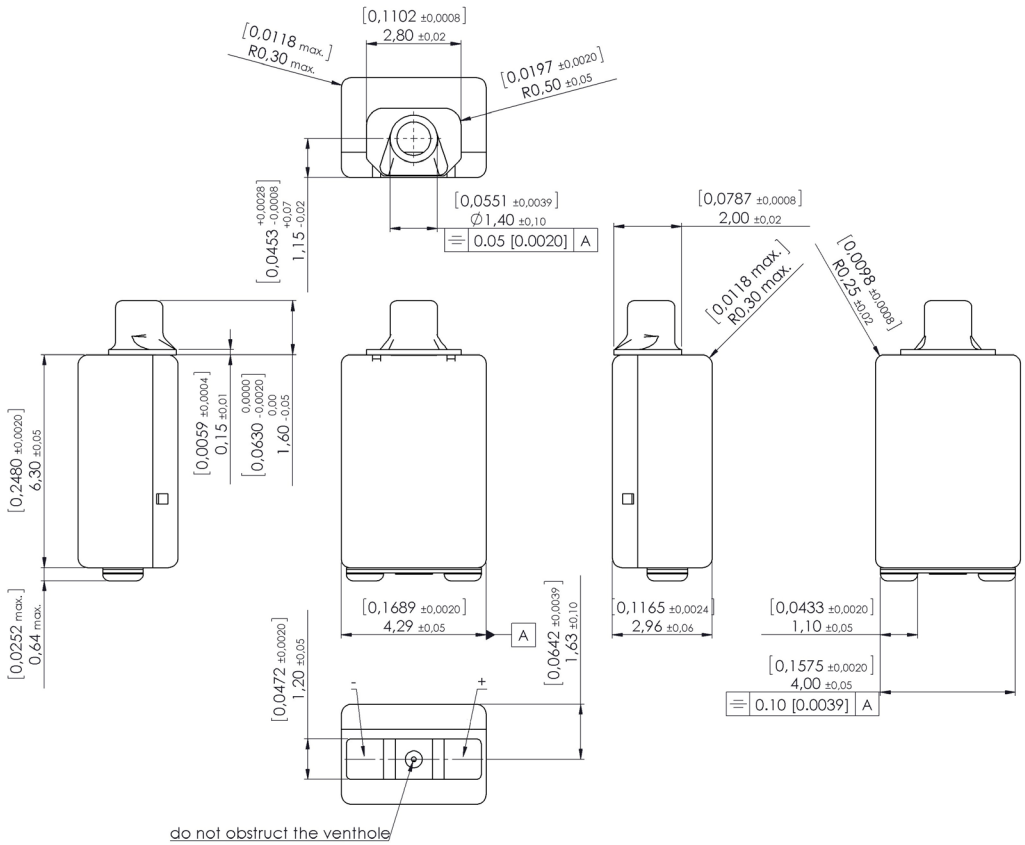
## Features

- Wide band response
- Improved low frequency output by venting
- Improved shock performance
- Tuned venting

## Mechanical data

| | |
|---|---|
| Weight | 0.34 gr. |
| Case material | Ni80Fe15Mo5 |
| Solder pad material | Sn96.5Ag3.0Cu0.5 |
| Dimensions | Refer to outline drawing |

## Product drawing - Dimensions in mm [inch]



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## Specifications

The acoustic termination consist of: 4.5 x 1.4 mm ID + 11x1.9 mm ID into a B&K 4157 (IEC 711) coupler, open vent. Constant current drive of 5.92 mA RMS (0.35 mVA at 1000 Hz) unless specified otherwise. Environmental conditions: 23°C (73.4F), 50% RH.

| Acoustic parameters | | Min | Typ | Max | Unit | Comments |
|---|---|---|---|---|---|---|
| Sensitivity | @ 30 Hz | 106 | 108.5 | 111 | dB | |
| | @ 200 Hz | 105.5 | 107.5 | 109.5 | dB | |
| | @ 500 Hz | 104.5 | 106.5 | 108.5 | dB | |
| | @ 1000 Hz | 107 | 109 | 111 | dB | |
| | @ 15500 Hz | 96 | 102 | | dB | |
| Peak 1 | frequency | 2150 | 2350 | 2550 | Hz | |
| | output | 123.5 | 125.5 | 127.5 | dB | |
| Valley 1 | frequency | 3200 | 3550 | 3900 | Hz | |
| | output | 115.5 | 118 | | dB | |
| Peak 2 | frequency | 4400 | 4900 | 5400 | Hz | |
| | output | 125 | 128 | 131 | dB | |
| Valley 2 | frequency | 6500 | 7000 | 7500 | Hz | |
| | output | 108 | 111 | | dB | |
| Peak 3 | frequency | 8000 | 8600 | 9200 | Hz | |
| | output | 117 | 120 | 123 | dB | |
| THD | @ 1/3 peak | | 8 | 10 | % | |
| | @ 1/2 peak | | 2.3 | 8 | % | |
| Maximum output @ peak frequency | | | 138 | | dB | @ 50 mVA input power |

| Electric parameters | Min | Typ | Max | Unit | Comments |
|---|---|---|---|---|---|
| Impedance @ 1000 Hz | 8 | 10 | 12 | Ohm | |
| Impedance @ 500 Hz | 4.8 | 6 | 7.2 | Ohm | |
| DC resistance @ 20°C | 3.4 | 4 | 4.6 | Ohm | |
| DC bias current range | zero bias | | | | |

| Additional parameters | Min | Typ | Max | Unit | Comments |
|---|---|---|---|---|---|
| Shock resistance | 14000 | | | g | 90% survival rate with THD @ 1/2 peak frequency < 10% |
| Storage temperature range | -40 | | 63 | °C | |

A positive voltage applied to the negative terminal (-) will result in an increase in pressure at the sound outlet.



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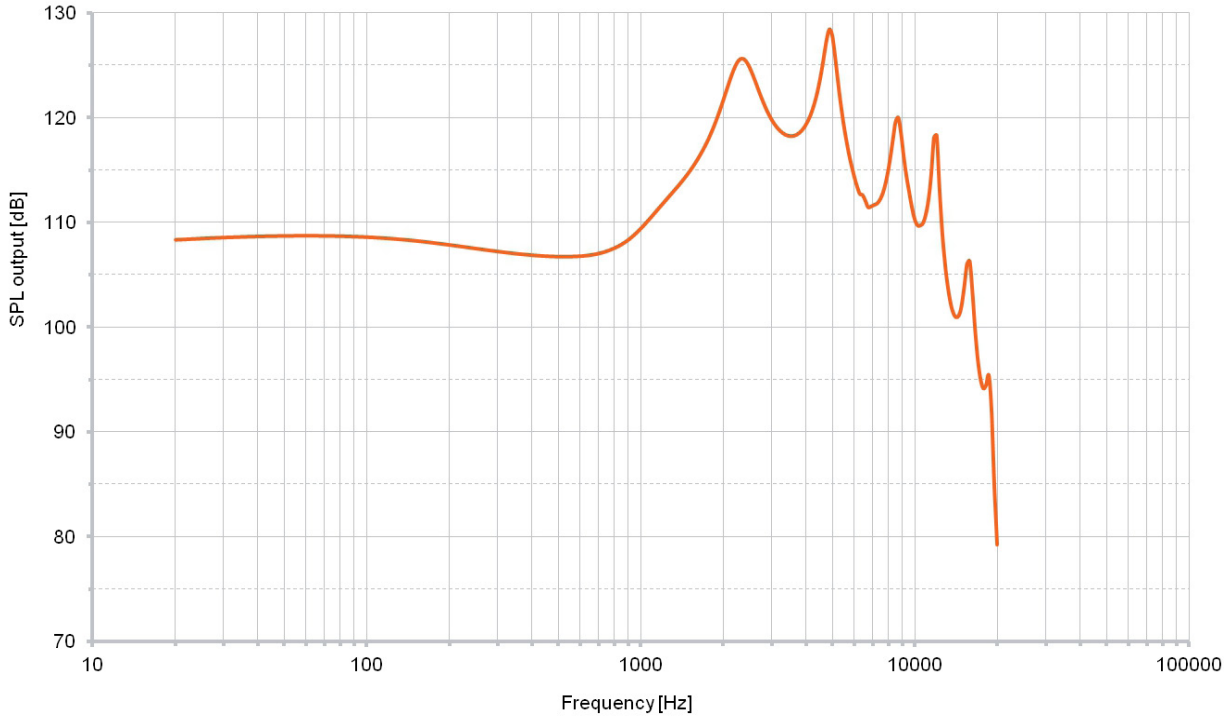
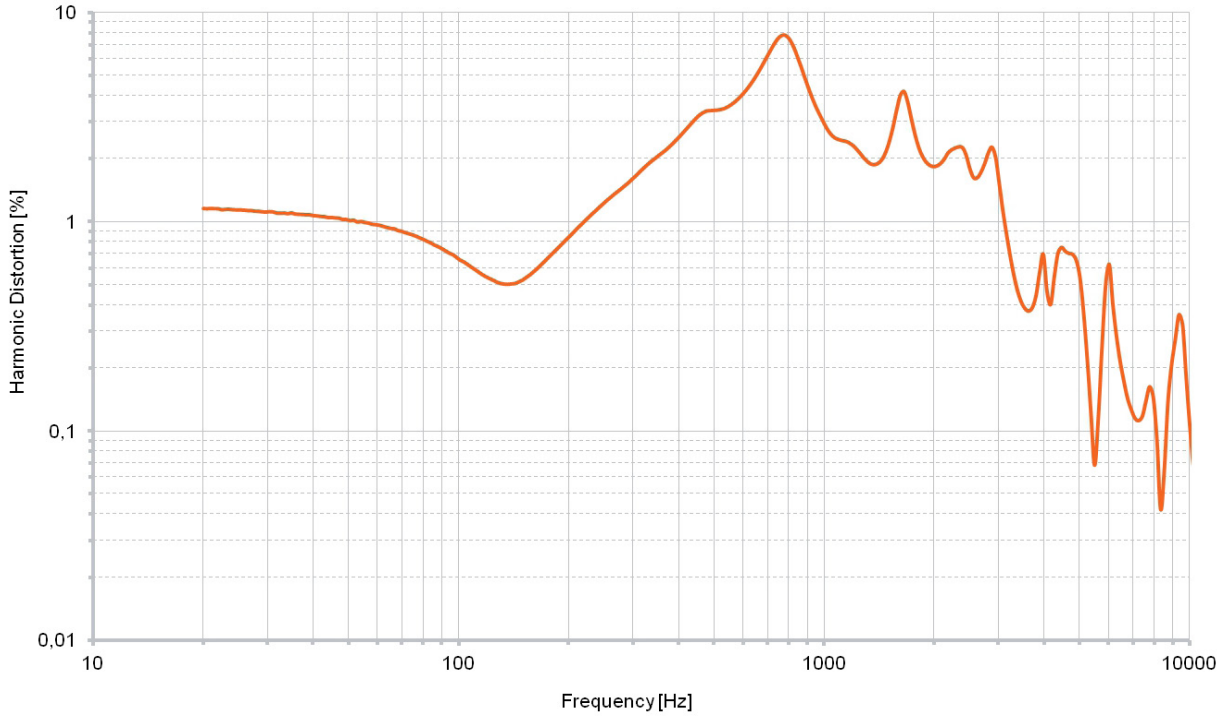
## Typical response curve




## THD vs Frequency, typical, nominal input



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