Data Sheet

Receiver 2389D



Description

miniature magnetic receiver (balanced armature type) for use in hearing aids and advanced audio applications

Features

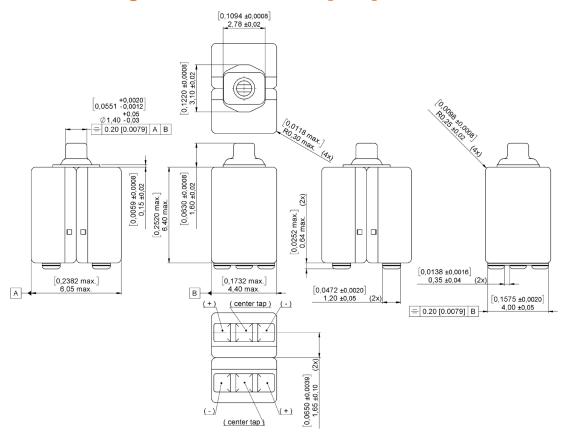
- Dual receiver
- Wideband response
- Ideal as dual midrange or dual tweeter in IEM applications



Mechanical data

Weight 0.68 gr.
Case material Ni80Fe15Mo5
Solder pad material Sn96.5Ag3.0Cu0.5
Dimensions Refer to outline drawing

Product drawing - Dimensions in mm [inch]



Sonion reserves the right to make changes at any time to improve reliability, function or design, in order to provide the best product possible. Receivers series of this type can produce very high sound pressure levels. When such receivers are applied in hearing instruments or other communications equipment special attention should be paid to this capacity in order to prevent possible hearing damage.

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 $\begin{tabular}{ll} \textbf{Specifications} \\ \textbf{The acoustic termination consist of: } 11x1.9mmID + 4.5 x 1.4 mm ID into IEC 711 coupler. Drive is voltage \\ \end{tabular}$ drive of 0.100 Vrms series or 0.050 Vrms parallel unless specified otherwise. Environmental conditions: 23°C (73.4F), 50% RH.

| Acoustic parameters | | Min | Тур | Max | Unit | Comments |
|---------------------------------|------------|-------|-------|-------|------|-----------|
| Sensitivity | @ 100 Hz | 114 | 117 | 120 | dB | |
| | @ 200 Hz | 113.5 | 116.5 | 119.5 | dB | |
| | @ 500 Hz | 112 | 115 | 118 | dB | |
| | @ 1000 Hz | 111 | 114 | 117 | dB | |
| Peak 1 | frequency | 2200 | 2400 | 2600 | Hz | |
| | output | 123.5 | 125.5 | 127.5 | dB | |
| Valley 1 | frequency | 3300 | 3650 | 4000 | Hz | |
| | output | 114 | 116.5 | | dB | |
| Peak 2 | frequency | 4100 | 4600 | 5100 | Hz | |
| | output | 120 | 123 | 126 | dB | |
| Valley 2 | frequency | 6750 | 7250 | 7750 | Hz | |
| | output | 97 | 100 | | dB | |
| Peak 3 | frequency | 8400 | 9000 | 9600 | Hz | |
| | output | 106 | 109 | 112 | dB | |
| THD | @ 1/3 peak | | 0.9 | 5 | % | |
| | @ 1/2 peak | | 0.5 | 5 | % | |
| Rated power | | | 10 | | mVA | |
| Maximum output @ peak frequency | | | 145 | | dB | @ 100 mVA |

| Electric parameters | Min | Тур | Max | Unit | Comments |
|-------------------------------|-----|-----|------|------|----------|
| Impedance @ 1000 Hz parallel | 4 | 5 | 6 | Ohm | |
| Impedance @ 1000 Hz series | 16 | 20 | 24 | Ohm | |
| Impedance @ 500 Hz parallel | 2.4 | 3 | 3.6 | Ohm | |
| Impedance @ 500 Hz series | 9.6 | 12 | 14.4 | Ohm | |
| DC resistance @ 20°C parallel | 1.7 | 2 | 2.3 | Ohm | |
| DC resistance @ 20°C series | 6.8 | 8 | 9.2 | Ohm | |

| Additional parameters | Min | Тур | 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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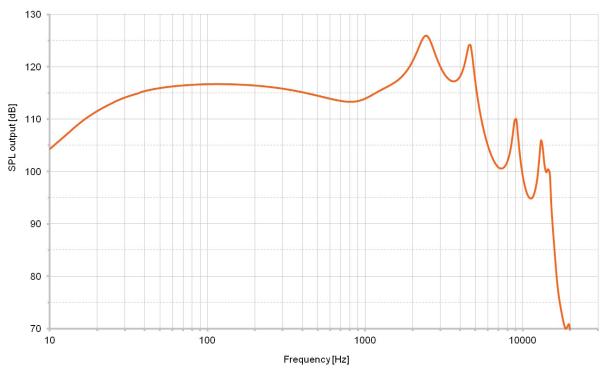
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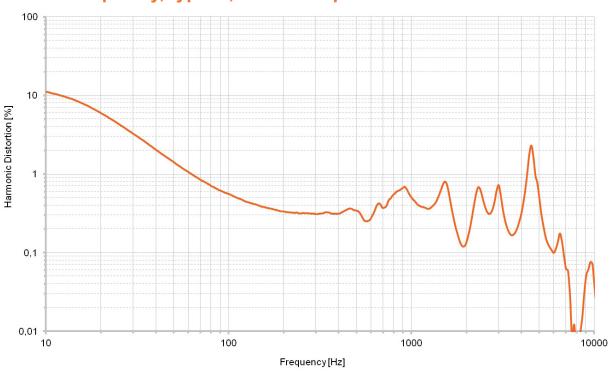
Version date



Typical response curve



THD vs Frequency, typical, nominal input



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