

Data Sheet



receiver 26J02/7

3260 - 2003827
Version:4 21-APR-2006

Description

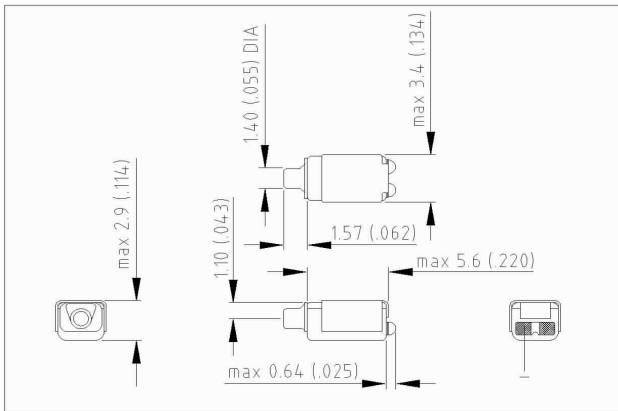
Subminiature magnetic receiver (Balanced Armature Type) for use in In The Canal and Completely In the Canal applications with modified response by means of an internal modification. Provided with a mumetal cap for improved robustness and decreased magnetic radiation.



Features

- Great ITE, ITC and CIC applications
- High output, maximum peak output 126 dB
- Improved shock performance

Dimensions in mm (inch)

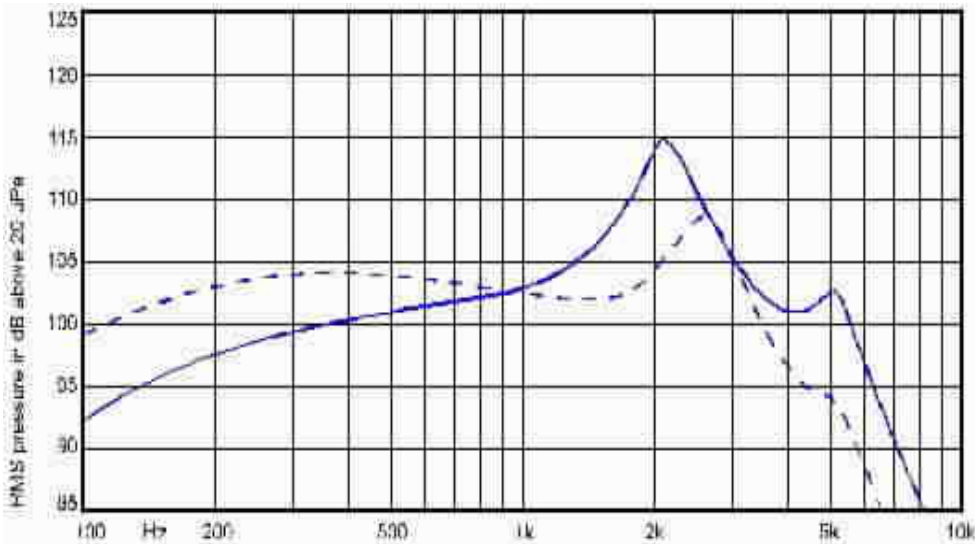


Mechanical Data

Weight 0.20 gr.
Case material Ni80Fe15Mo5
Solder pad content Sn96.5Ag3.0Cu0.5
Dimensions Refer to outline drawing

Typical response curve

Solid curve: Ideal current source 1.6 mA RMS.
Dashed curve: Ideal voltage source 0.35 V RMS.



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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Specifications

Acoustic loading: 10.0 mm of 1.0 mm diameter tubing into a 2 cc coupler.
Constant current drive of 1.60 mA (0.55 mVA RMS @ 1000 Hz).
Environmental conditions: 23 °C (73.4F), 50 % RH

| Acoustic parameters | | Min | Typ | Max | Unit | Comments |
|---------------------------------|------------|------|-------|------|------|--------------|
| Sensitivity | @ 200 Hz | 95 | 98 | 101 | dB | |
| | @ 500 Hz | 97 | 100 | 103 | dB | |
| | @ 1000 Hz | 100 | 103 | 106 | dB | |
| Peak 1 | frequency | 2000 | 2175 | 2400 | Hz | |
| | output | 112 | 115 | 118 | dB | |
| Valley 1 | frequency | 3500 | 4250 | 5000 | Hz | |
| | output | 94 | 101 | | dB | |
| Peak 2 | frequency | 4800 | 5500 | 6000 | Hz | |
| | output | 100 | 103.5 | 107 | dB | |
| THD | @ 1/3 peak | | | 5 | % | |
| | @ 1/2 peak | | | 5 | % | |
| Maximum output @ peak frequency | | | | 126 | dB | 50 mVA input |

| Electric parameters | | Min | Typ | Max | Unit | Comments |
|-----------------------|--|-----------|-----|-----|------|----------|
| Impedance @ 1000 Hz | | 177 | 221 | 265 | Ohm | |
| DC resistance @ 20 °C | | 102 | 120 | 138 | 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 freq. < 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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