

Description

Subminiature magnetic receiver (Balanced Armature Type) for use in In The Canal and Completely In the Canal applications with standard response. Provided with a mumetal cap for improved robustness and decreased magnetic radiation.



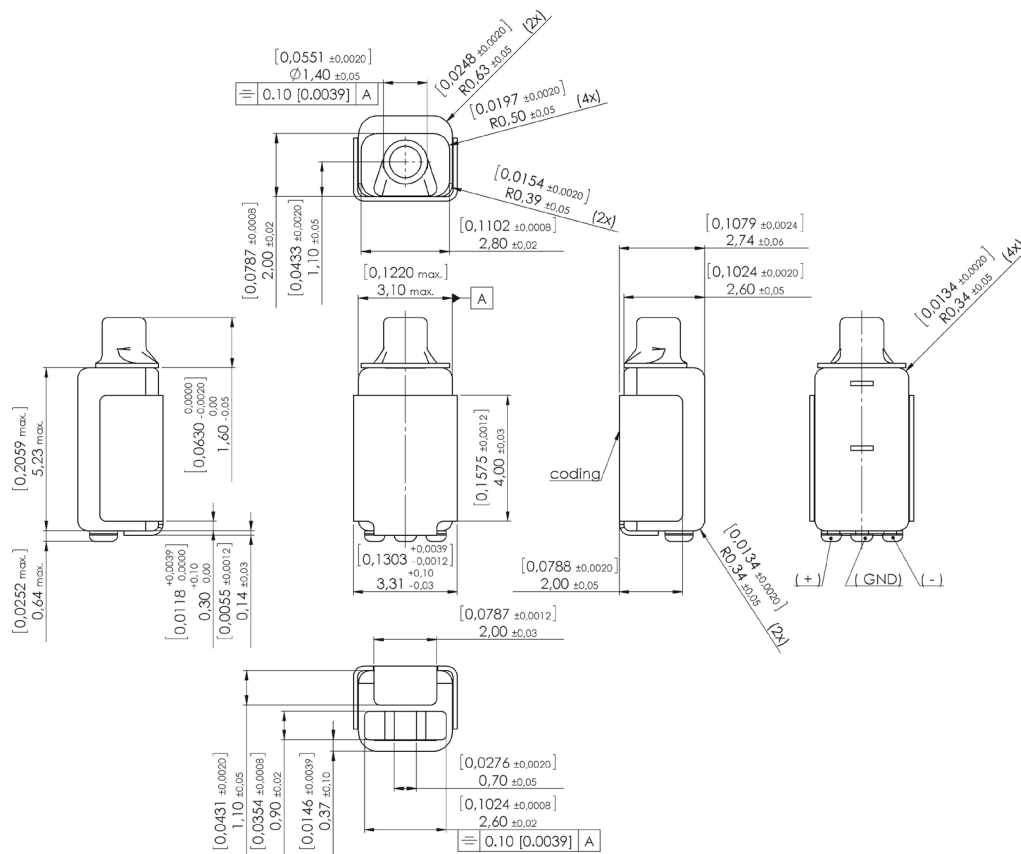
Features

- Excellent for mini BTE, ITE, ITC and CIC applications
- Improved efficiency
- Improved maximum LF output
- Center tap connected to case

Mechanical data

| | |
|---------------------|--------------------------|
| Weight | 0.20 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.

Specifications

Acoustic loading: 10.0 mm of 1.0 mm diameter tubing into a 2 cc coupler.

Constant voltage drive of 0.16 V RMS (0.35 mVA @ 500 Hz).

Environmental conditions: 23°C (73.4F), 50% RH.

| Parameters | | Min | Typ | Max | Unit | Comments |
|---------------------------------|------------|-------|-------|-------|------|-----------------|
| Sensitivity | @ 200 Hz | 103.5 | 106.5 | 109.5 | dB | |
| | @ 500 Hz | 101 | 104 | 107 | dB | |
| | @ 1000 Hz | 98 | 101 | 104 | dB | |
| Peak 1 | frequency | 2375 | 2550 | 2725 | Hz | |
| | output | 103.5 | 106.5 | 109.5 | dB | |
| Valley 1 | frequency | 3600 | 4350 | 5100 | Hz | |
| | output | 91 | 94 | | dB | |
| Peak 2 | frequency | 4650 | 5150 | 5650 | Hz | |
| | output | 93 | 96 | 99 | dB | |
| THD | @ 1/3 peak | | | 5 | % | |
| | @ 1/2 peak | | | 5 | % | |
| Maximum output @ peak frequency | | | | 126 | dB | @ 100 mVA input |

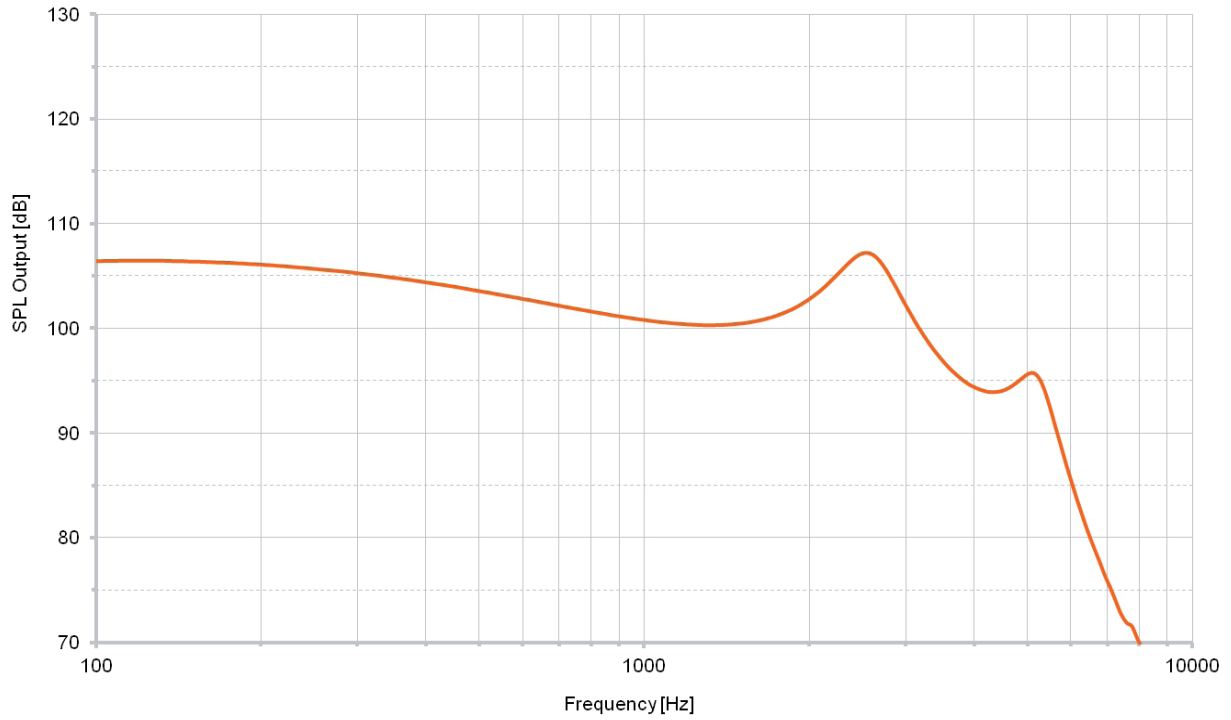
| Electric parameters | Min | Typ | Max | Unit | Comments |
|-----------------------|-----------|-----|-----|------|----------|
| Impedance @ 1000 Hz | 104 | 130 | 156 | Ohm | |
| Impedance @ 500 Hz | 60 | 75 | 90 | Ohm | |
| DC resistance @ 20°C | 42 | 49 | 56 | Ohm | |
| DC bias current range | zero 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



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