



LIZN HEARING AID BLUETOOTH BAND ANTENNA

Part Number: 2108900-1,1-2108900-1,2-2108900-1
2108897-1,1-2108897-1,2-2108897-1

FEATURES & BENEFITS

- LDS(Laser Direct Structuring) Antenna
- Ability to selectively and repeatably plate 3 dimensionally
 - Ability to produce thin traces
 - Flexibility of pattern design without changing tool

SPECIFICATIONS

| | | |
|-----------------------|--|---|
| Frequency Range (MHz) | 2400 – 2500 (LEFT with Ear phantom) | 2400 – 2500 (RIGHT with Ear phantom) |
| VSWR | < 2.5.0:1 | < 2.5.0:1 |
| Average Efficiency | 4.4 % | 4.4 % |
| Peak Gain | -7.94 dBi | -7.92 dBi |
| Average Gain | -13.54 dBi | -13.55 dBi |
| Power Handling | 5 Watt cw | |
| Feed Point Impedance | 50 ohms | |
| Polarization | Linear | |
| Size | 18.68 mm x 17.6 mm x 9.77 mm | |
| Weight | < 0.5 g | |
| Operating Temperature | -40 to +85°C | |
| Storage Temperature | -40 to +85°C | |
| Hazardous Materials | A certificate of conformance is available from the product page on TE website. | |

RF DATA

3D Chamber : Efficiency Measurement

LEFT

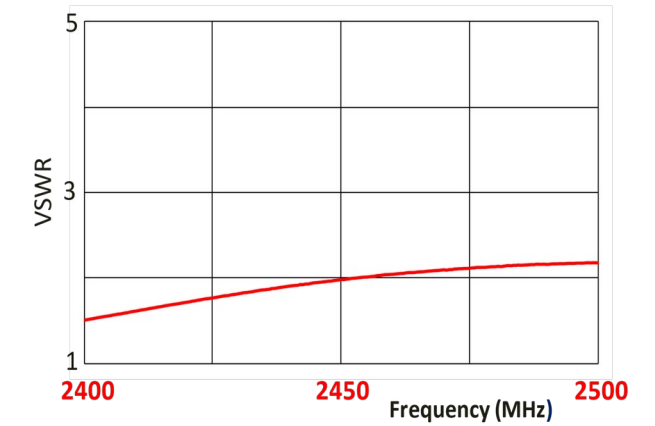
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency [MHz] | 2400 | 2413 | 2425 | 2438 | 2450 | 2463 | 2475 | 2488 | 2500 |
| Efficiency [dB] | -14.00 | -13.77 | -13.55 | -13.49 | -13.48 | -13.25 | -13.40 | -13.40 | -13.51 |
| Efficiency [%] | 4.0 | 4.2 | 4.4 | 4.5 | 4.5 | 4.7 | 4.6 | 4.6 | 4.5 |
| Peak Gain [dB] | -8.80 | -8.63 | -8.38 | -8.24 | -8.23 | -7.95 | -7.96 | -7.88 | -7.94 |

RIGHT

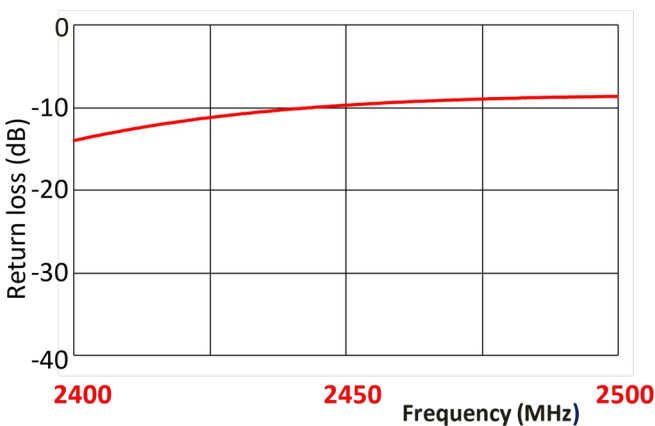
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency [MHz] | 2400 | 2413 | 2425 | 2438 | 2450 | 2463 | 2475 | 2488 | 2500 |
| Efficiency [dB] | -14.01 | -13.80 | -13.57 | -13.49 | -13.50 | -13.27 | -13.41 | -13.42 | -13.53 |
| Efficiency [%] | 4.0 | 4.2 | 4.4 | 4.5 | 4.5 | 4.7 | 4.6 | 4.6 | 4.4 |
| Peak Gain [dB] | -8.76 | -8.61 | -8.38 | -8.25 | -8.27 | -7.96 | -7.99 | -7.92 | -7.96 |

RF DATA - LEFT

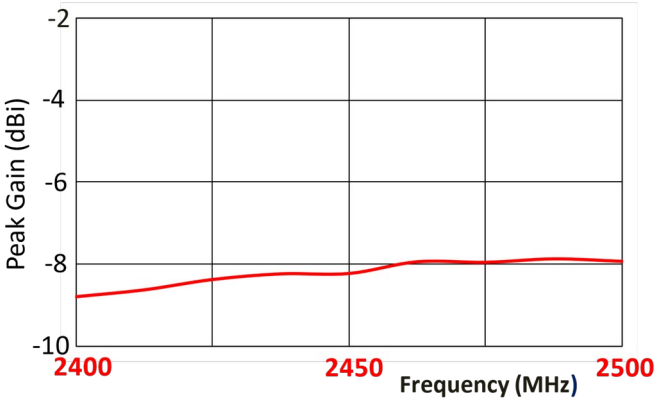
VSWR



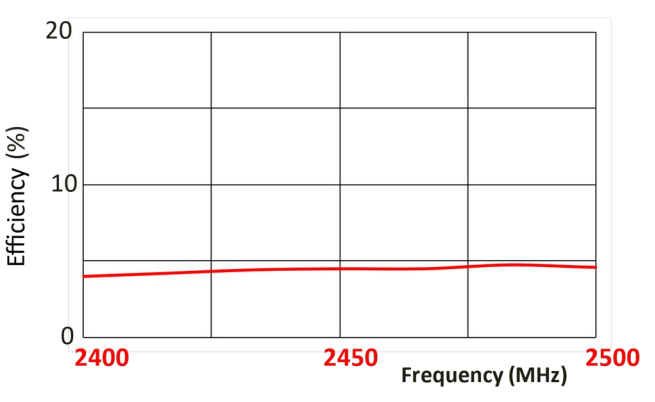
Return Loss



Peak Gain

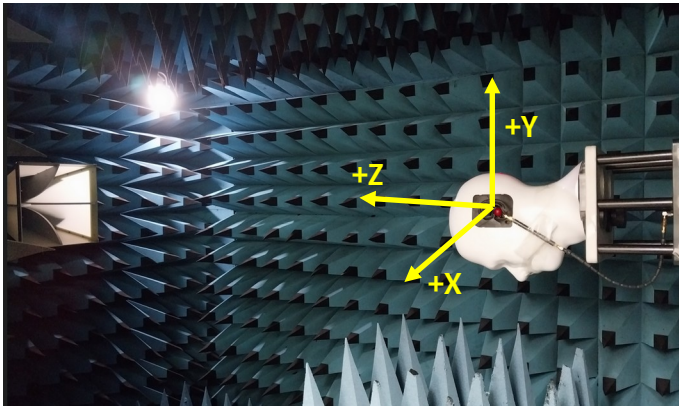


Efficiency

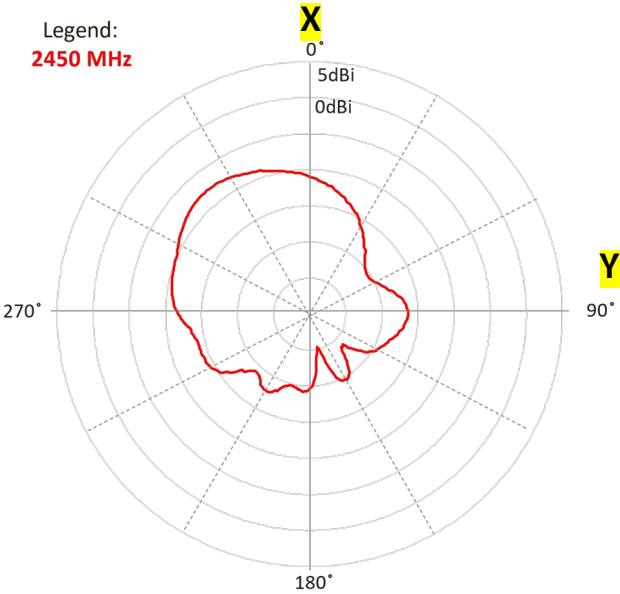


RADIATION PATTERN - LEFT

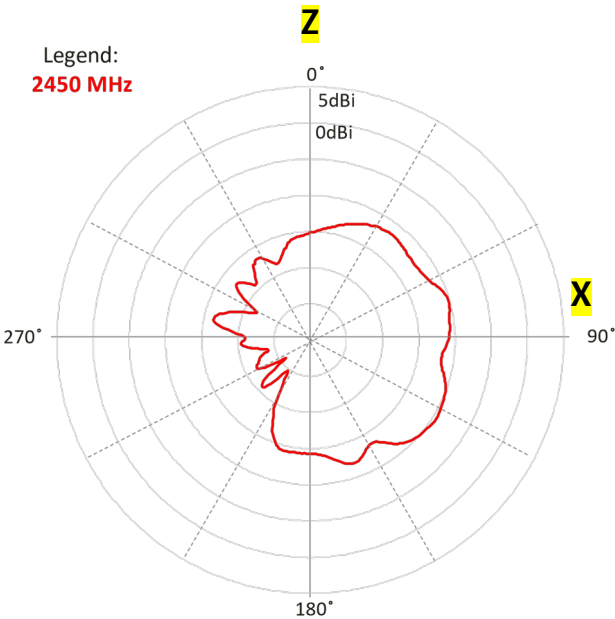
Test setup



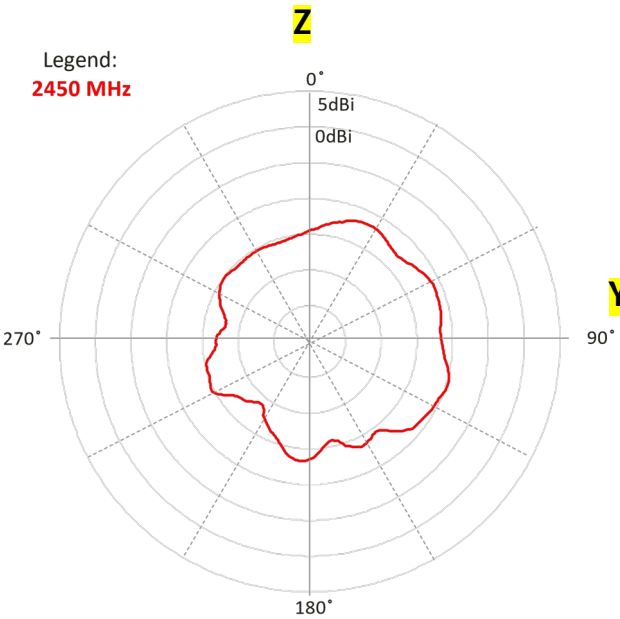
Azimuth [XY]



Elevation 1 [XZ]



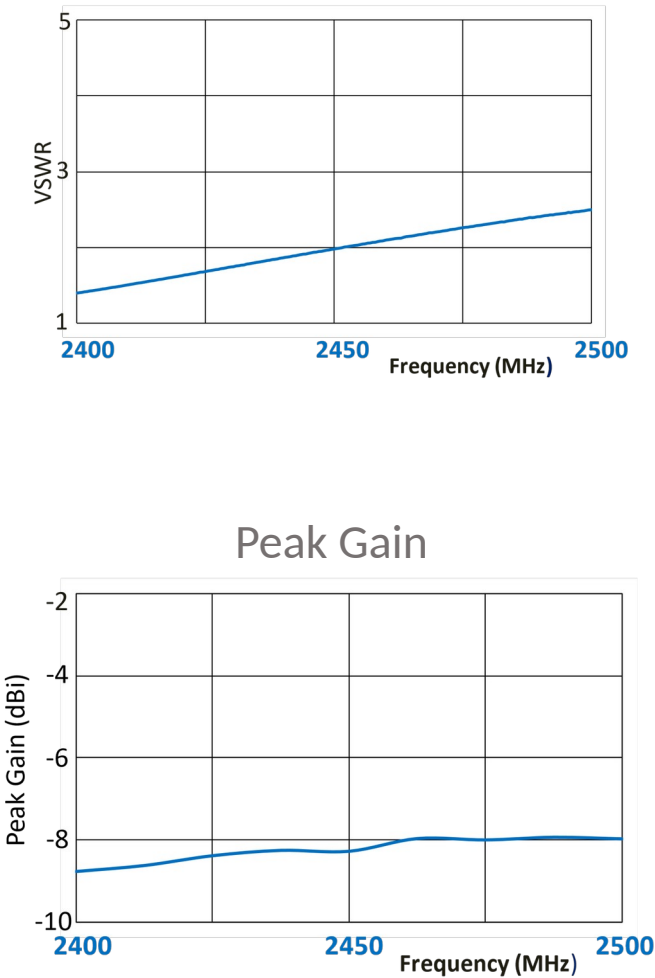
Elevation 2 [YZ]



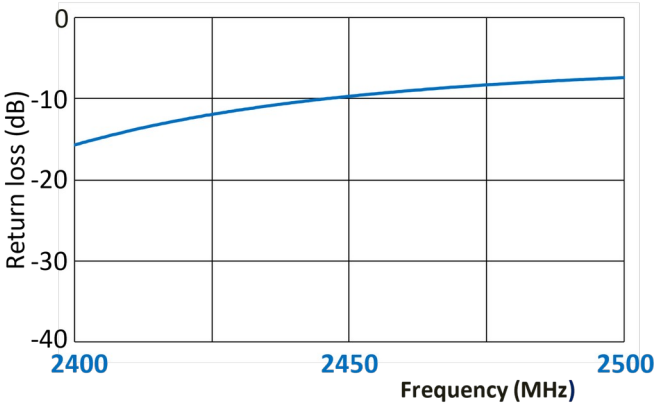


RF DATA - RIGHT

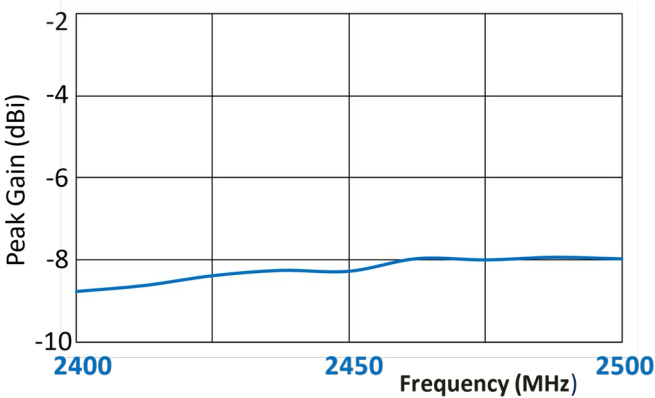
VSWR



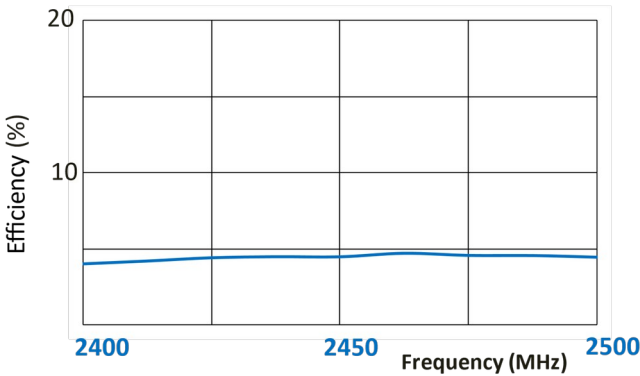
Return Loss



Peak Gain

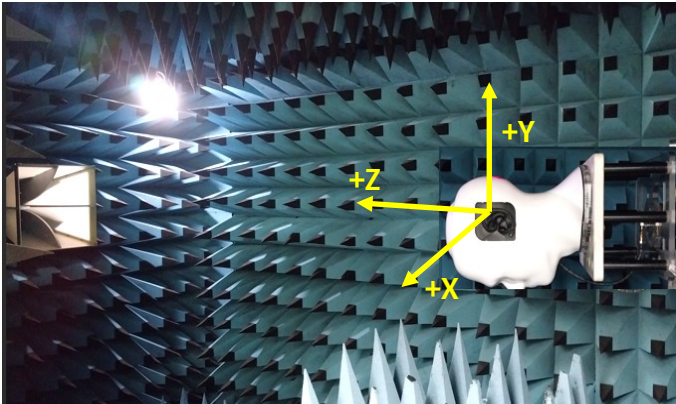


Efficiency

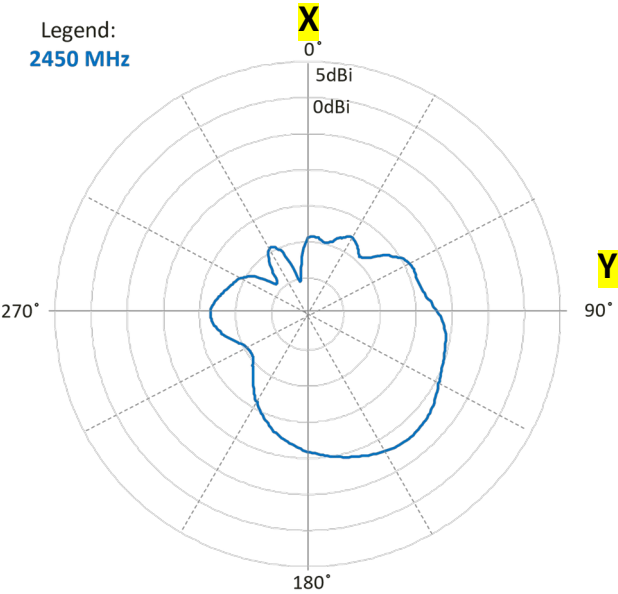


RADIATION PATTERN - RIGHT

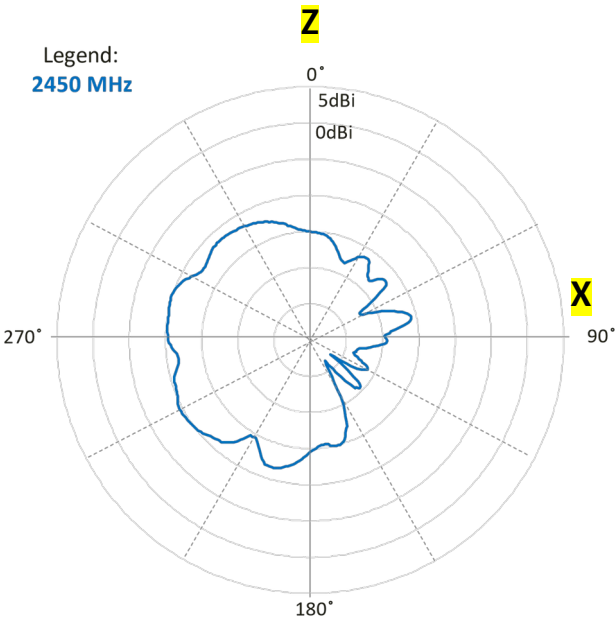
Test setup



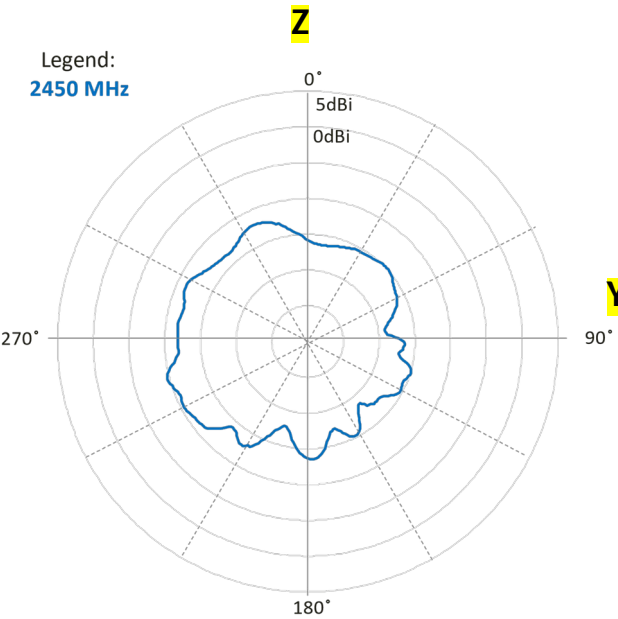
Azimuth [XY]



Elevation 1 [XZ]



Elevation 2 [YZ]



TEST SET

LEFT

RIGHT

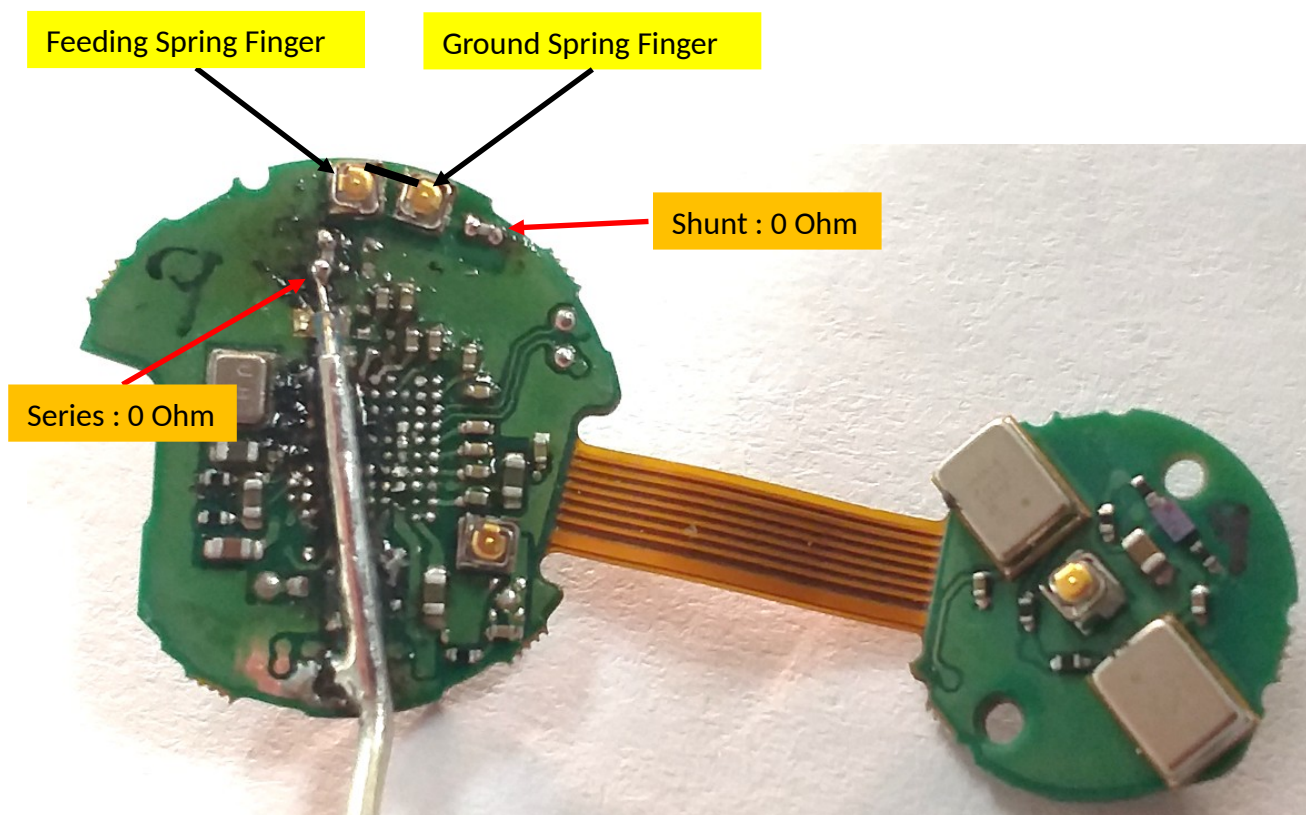


LEFT-Ear Phantom

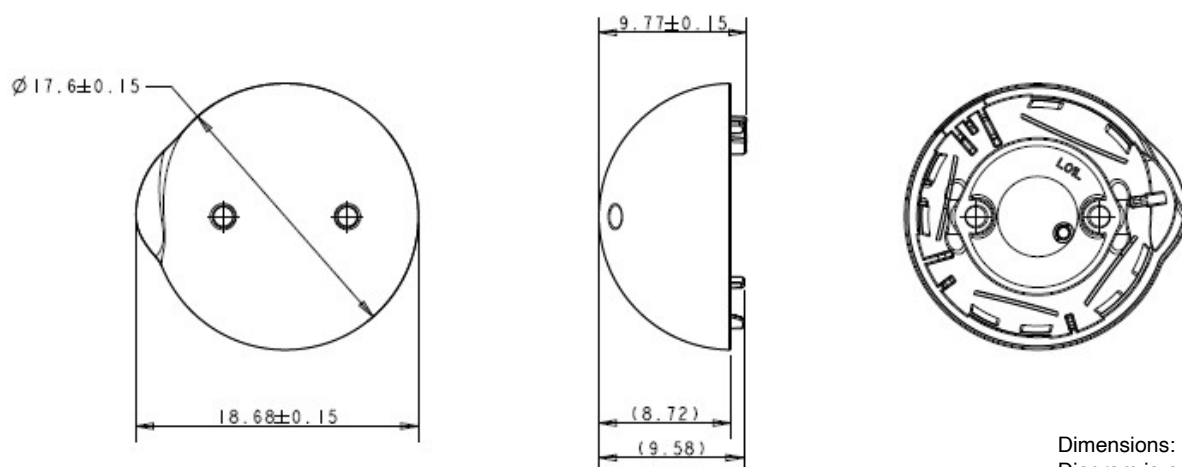
RIGHT-Ear Phantom



MATCHING CIRCUIT VALUE



DIMENSIONS



Dimensions: mm
Diagram is not to scale

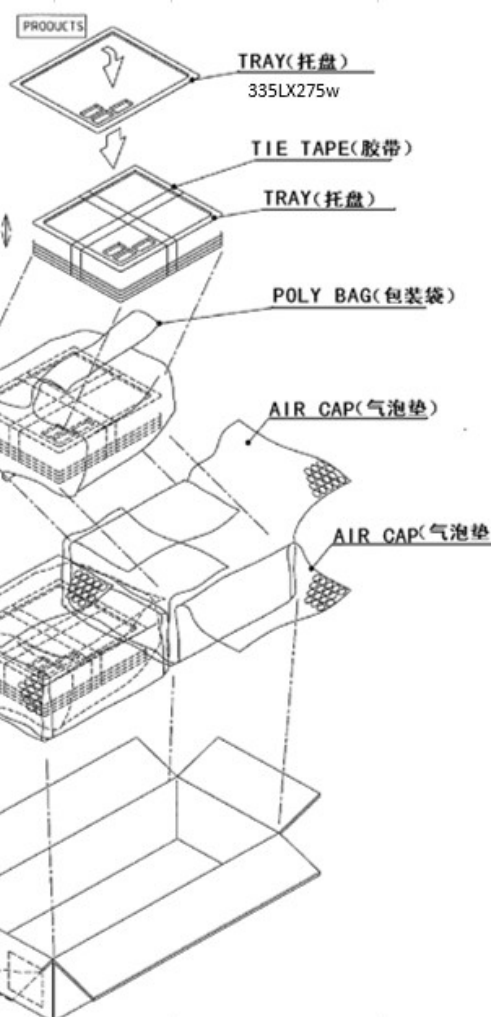
PACKAGING

① PRIMARY PACKING 80PCS/BUNDLE

② SECONDARY PACKING 1200PCS/BAG 托盘 TY TRAY TRAYS W/PRODUCTS

③ SHIPPER PACKING 2 BAG/BOX

BOX, SHIPPER
2 BAG/BOX



TE TECHNICAL SUPPORT CENTER

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10/2023