

# DD45

# AUDIOMETRIC EARPHONES

RoHS Compatible • Easy Installation • 10 Ohm Receiver

**ECONOMICAL**

**RELIABLE**

**HIGH QUALITY**

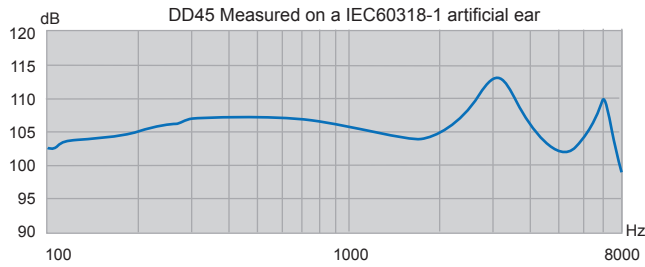
**WELL BUILT**

## DD45 AUDIOMETRIC EARPHONES

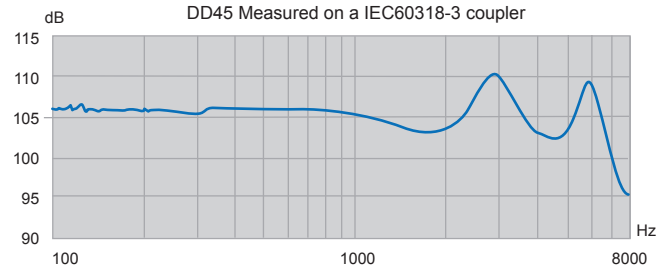
- Engineered to match the performance and function of the most popular earphones available for audiological testing in today's marketplace.
- The DD45 air transducer is manufactured to the highest quality standards and is a more economical alternative.
- RadioEar has an extensive history of successfully serving serving audiometer manufacturers and service providers. We recognize the critical importance these devices play for our customers.
- The DD45 Audiometric Earphones and all of the accessories are manufactured for Radioear.
- These earphones are fully supported by RadioEar, and receive the same focused attention and personal service that we provide our customers for bone transducers, headbands and cords.

# DD45

# TECHNICAL SPECIFICATIONS



GRAPH 1: Artificial Ear.



GRAPH 2: Coupler.

The DD45 is a Supra Aural earphone that meets all of the requirements of ANSI S3.6 – 2010 and ISO389-1 section 4.3. The DD45 conforms to all of the characteristics found in section 9.1.1. When using a 318-1 artificial ear the standard allow for calibration using the RETSPLs found in Table 5. Section 9.1.2 requires that for earphones not listed in table 5 valid RETSPLs will be provided. These RETSPLs were developed in accordance with ISO 389-9 by independent laboratories (PTB and DTU).

## Dynamic Receiver 10 Ohm

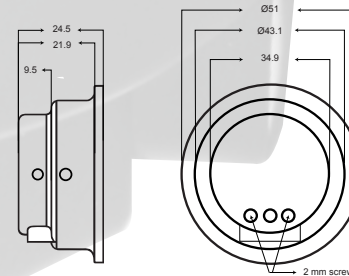
- Standards:** ANSI S3.6-2010; ISO389-1 1998
- Earphone receiver:** Dynamic moving coil, special built for audiometry
- Nominal impedance:** 10 Ohm
- Frequency response:** 100 Hz – 8 kHz
- Linearity:** Linear up to 500mW
- Sensitivity:** Typically 106.7 dB SPL re. 20  $\mu$ Pa output with 1 mW input, f= 1 kHz
- Harmonic distortion:** Below 1 % at 120 db SPL, f=1 kHz
- Weight complete:** 59 gram (2 oz)
- Cable connector:** 2 terminals with 4 mm holes and 2 mm screw
- Environmental:**
  - RoHS compatible
  - Lead and nickel free
  - Bio compatible

## DD45 Pure Tone RETSPL

Frequency Hz	ISO 389-1 ANSI S3.6 Artificial ear IEC 60318-1 dB SPL	Averaged PTB – DTU Report 6cc Coupler IEC 60318-3 / NBS 9A dB SPL
125	45.0	47.5
160	38.5	40.5 <sup>1</sup>
200	32.5	33.5 <sup>1</sup>
250	27.0	27.0
315	22.0	22.5 <sup>1</sup>
400	17.0	17.5 <sup>1</sup>
500	13.5	13.0
630	10.5	9.0 <sup>1</sup>
750	9.0	6.5
800	8.5	6.5 <sup>1</sup>
1000	7.5	6.0
1250	7.5	7.0 <sup>1</sup>
1500	7.5	8.0
1600	8.0	8.0 <sup>1</sup>
2000	9.0	8.0
2500	10.5	8.0 <sup>1</sup>
3000	11.5	8.0
3150	11.5	8.0 <sup>1</sup>
4000	12.0	9.0
5000	11.0	13.0 <sup>1</sup>
6000	16.0	20.5
6300	21.0	19.0 <sup>1</sup>
8000	15.5	12.0

<sup>1</sup> Interpolated

Physical dimensions of the transducer DD45 [mm]



## Accessories

- Folding Headband
- Contra Lateral Headband
- Cords
- Earcushions