

# P4421S

## DD45S shielded transducer

#8507271

The Gold  
Standard  
of Audiometric Transducers

### Features

- RoHS compatible
- Easy installation
- 10 ohm receiver
- Economical
- Reliable
- High quality
- Well built
- Magnetic shielded
- Ideal for ABR measurements



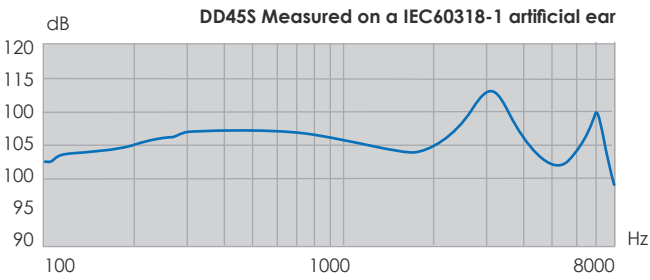
### DD45S Audiometric Earphones

- Engineered to match the performance and function of the most popular earphones available for audiological testing in today's market.
- The DD45S air transducer is manufactured to the highest quality standards and is an economic choice.
- RadioEar has an extensive history of successfully serving audiometer manufacturers and service providers. We recognize the critical importance these devices have for our customers.
- The DD45S 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.
- Designed to minimize magnetic emission.

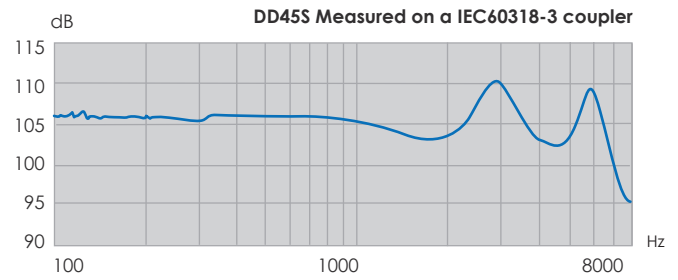


## DD45S shielded transducer

# Technical Specifications



Graph 1 : Artificial Ear



Graph 2 : Coupler

The DD45S is a Supra Aural earphone that meets all of the requirements of ANSI S3.6 – 2010 and ISO389-1 section 4.3. The DD45S 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

<b>Standards:</b>	ANSI S3.6-2010; ISO389-1 1998
<b>Earphone Receiver:</b>	Dynamic moving coil, specially built for audiometry
<b>Nominal Impedance:</b>	10 ohm
<b>Frequency Response:</b>	100 Hz - 8 kHz
<b>Linearity:</b>	Linear up to 500 mW
<b>Sensitivity:</b>	Typically 106.7 dB SPL re. 20 µPa output with 1 mW input, f=1 kHz
<b>Harmonic Distortion:</b>	Below 1% at 120 db SPL, f=kHz
<b>Cable Connector:</b>	2 terminals with 4 mm holes and 2 mm screw
<b>Weight Complete:</b>	59 gram (2 oz)
<b>Environmental:</b>	<ul style="list-style-type: none"> <li>• RoHS compatible</li> <li>• Lead and nickel-free</li> <li>• Bio compatible</li> <li>• Magnetic shielded</li> </ul>
<b>Accessories</b>	<ul style="list-style-type: none"> <li>• DD45 Contra headband, HB3045C</li> <li>• Adult Easy Adjust DD45 Headband, HB3045</li> <li>• Pediatric Easy Adjust DD45 Headband, HB3100</li> <li>• Dual Mono earphone cable 2 m, P4432</li> <li>• Dual Mono earphone cable 5 m, P4432X</li> <li>• Type 51 Ear Cushion set Red/blue, P4452</li> <li>• Type 51 Ear Cushion Black (1 pc), P4451</li> </ul>

## DD45S Pure Tone RETSPL

Frequency Hz	ISO 389-1 ANSI S3.6	Averaged PTB – DDTU Report
	Artificial ear IEC 60318-1 dB SPL	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

## Dimensions

