

# SONOCUSTOM

Plug into your digital life



## SPECIFICATIONS

### ACOUSTICAL SPECIFICATIONS

#### PCS300

Frequency response<sup>1</sup>: 100 Hz to 5.7 kHz  $\pm 4$  dB  
Acoustic polarity: a positive voltage causes a decrease in pressure at sound outlet (+electrical = -acoustic)  
Transducer type: Balanced armature  
Sensitivity: 104.5 dB SPL  $\pm 3$  dB @1 kHz for a 0.053 Vrms input  
Impedance: 7.1  $\Omega$   $\pm 15\%$  @500 Hz  
Maximum output level: 122 dB SPL at res.

#### PCS500

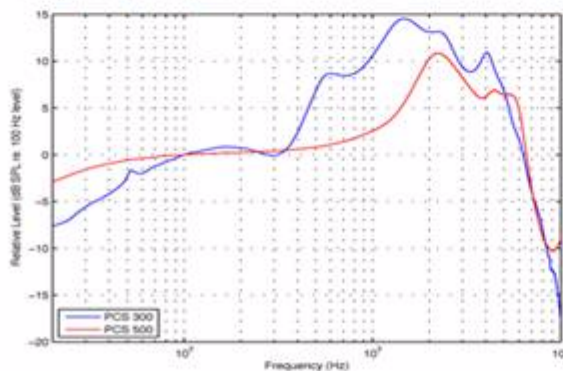
Frequency response<sup>1</sup>: 16 Hz to 6.9 kHz  $\pm 4$  dB  
Acoustic polarity: a positive voltage causes a decrease in pressure at sound outlet (+electrical = -acoustic)  
Transducer type: Dual Balanced armature  
Sensitivity: 95.0 dB SPL  $\pm 3$  dB @1 kHz for a 0.085 Vrms input  
Impedance: 31.0  $\Omega$   $\pm 15\%$  @500 Hz  
Maximum output level: 112 dB SPL at res.

### PHYSICAL SPECIFICATIONS

Typical Weight: 15 g (0.53 oz) including both earpieces (actual weight depends on the final size after custom fitting)  
Cable: 1.3 m (50 in.) kink-resistant  
Connector: 3.5mm (1/8") gold-plated stereo jack

Ambient noise insulation<sup>2</sup>: -30 dB

### Frequency Response Chart of PCS300 & PCS500



(1) All earphone responses are measured on a manikin which has the same acoustic properties as the average head and ear. The Bruel&Kjaer® Head and Torso Simulator 4128C (HATS) complies with the acoustic requirements of ITU-T Rec. P.58, IEC 60959, and ANSI S3.36-1985 and that is highly representative IEC 711/ITU-T Type 3.3 based calibrated ear simulator (Type 4158 C) with built in 1/2 condenser microphone and microphone preamplifier. Levels are normalized at 500 Hz.

(2) All attenuations are measured on human subjects, using the Real-Ear-Attenuation-at-Threshold (REAT) Method. The ANSI S3.19 standard method of measuring the noise attenuation of hearing protectors and earphones is to compare the quietest sound heard with the earphone in place to the quietest sound heard with the ears open. This REAT method is the basis for all OSHA Noise Reduction Ratings (NRR). Attenuations presented here are the group averages measured on the SonoCustom™ earplug at E-A-RCAL Laboratories, Indianapolis IN (Test ID# 235006).

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