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## *Sample Report*

*Woofers sample - CA26RE/P*

<b>Sample No.</b>	<b><math>f_0</math> [Hz]</b>	<b><math>Z_0</math> [ohm]</b>
060627-01	26	42
060627-02	28	42
060627-09	26	40

*Table 1. Sample number,  $f_0$  and  $Z_0$  for all the samples.*

The resonance frequency ( $f_0$ ) and the impedance at resonance ( $Z_0$ ), are measured using a 2  $V_{RMS}$  sine signal. (The samples are not run in.)

- Voice coil, 39 mm diameter, 8 ohm
- 2-layer Cu-wire, 16 mm winding height,  $X_{lin} = +/- 5.0$  mm
- Aluminum former
- Coated paper cone
- ABS phase plug
- Low loss (50 Shore) surround
- Magnet system outside diameter is 90 mm
- The basket outside diameter is 269.0 mm

### Measurements for CA26RE/P (060627-01-09)

The samples are measured in a 29.5 l closed cabinet with outside dimensions 361 mm x 505 mm x 218 mm (W H D) with wall thickness 15 mm. The cabinet is loosely filled with damping material. The samples are measured at 1 m/2.83 V on axis in our anechoic chamber using the TRF-module from Klippel GmbH<sup>1</sup>. The microphone is a B&K 4133.

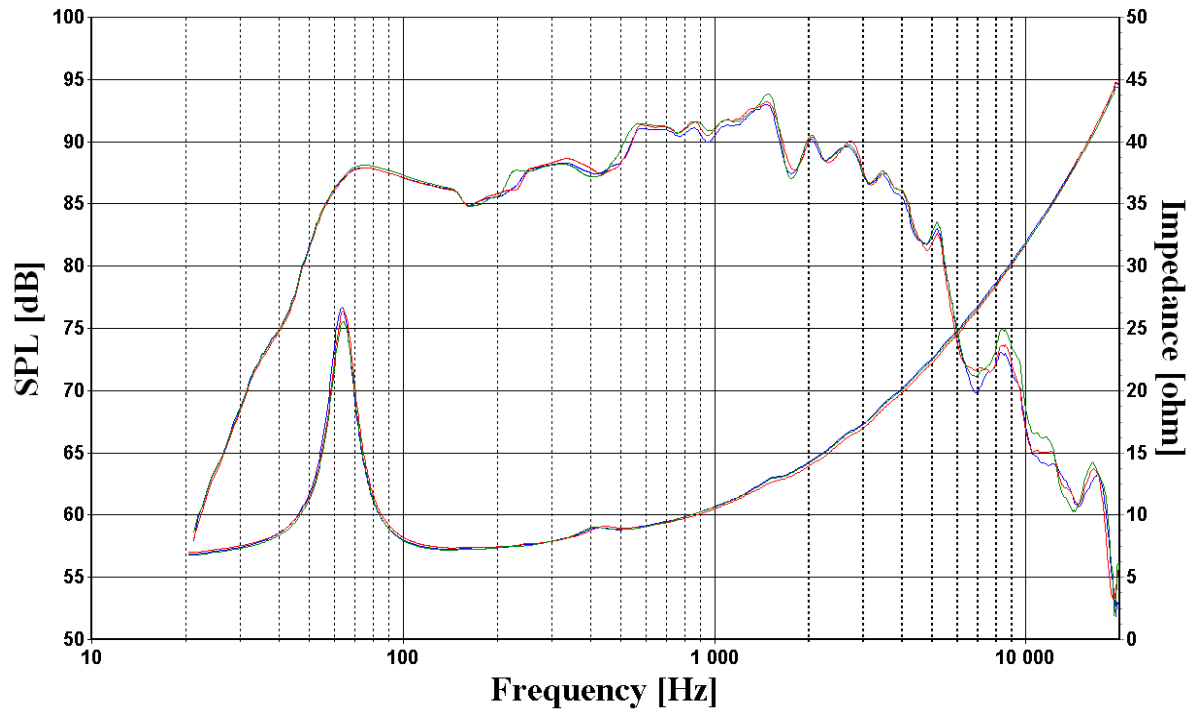


Figure 1: Upper curves are sound pressure responses (left axis), lower curves are impedance responses for samples 060627-01 through -09.

## Parameters for CA26RE/P (060627-09)

The measured sample has been run in at near maximum excursion in free air using a sine signal at  $f_0$  for 2 min. The resonance frequency and impedance at resonance are measured using a  $2 V_{\text{RMS}}$  sine signal.

The moving mass and the BL-product are measured with the laser equipment from Klippel GmbH<sup>1</sup>.

Free air res., $f_0$	26	Hz
Moving mass, $M_{\text{ms}}$	33.30	g
Force factor, BL	7.0	N/A
Imp. at res., $Z_0$	40	ohm
DC resistance, $R_{\text{dc}}$	6.32	ohm
Eff. Area, S	340	cm <sup>2</sup>
Mec. res., $R_{\text{mec}}$	1.45	Ns/m
Q <sub>ms</sub>	3.76	
Q <sub>es</sub>	0.71	
Q <sub>ts</sub>	0.59	
V <sub>as</sub>	182.2	l
C <sub>ms</sub>	1.13	mm/N

Table 2: T/S parameters.

The samples which you have now received are hand made in our laboratory by specialist sample builders. In regular production, the driver will be produced by a combination of hand work and machinery, which might give some minor changes in the performance of the driver.

The samples are made of standard parts we have in stock, so you can expect a 4 - 6 week lead time from your first order.

Sample number 060627-09 is stored at Seas for two years as a reference.

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1. See [www.klippel.de](http://www.klippel.de) for more information.