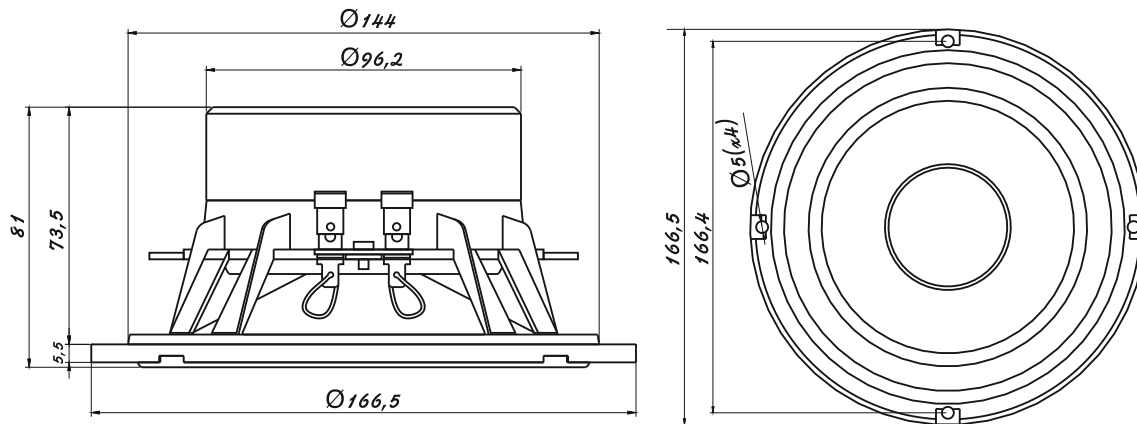


## SUA17 6" Midbass Universal Serites



### Measur

#### Electrical Parameters

- Re** 3,3 Ohm electrical voice coil resistance at DC
- Le** 0,321 mH frequency independent part of voice coil inductance
- L2** 0,334 mH para-inductance of voice coil
- R2** 0,94 Ohm electrical resistance due to eddy current losses
- Cmes** 572,13  $\mu$ F electrical capacitance representing moving mass
- Lces** 18,27 mH electrical inductance representing driver compliance
- Res** 12,52 Ohm resistance due to mechanical losses
- Fs** 49,2 Hz driver resonance frequency

#### Mechanical Parameters (using laser)

- Mms** 17,531 g mechanical mass of driver diaphragm assembly including air load and voice coil
- Mmd** (Sd) 15,882 g mechanical mass of voice coil and diaphragm without air load
- Rms** 2,447 kg/s mechanical resistance of total-driver losses
- Cms** 0,596 mm/N mechanical compliance of driver suspension
- Kms** 1,68 N/m mmechanical stiffness of driver suspension
- Bl** 5,536 force factor (Bl product)
- Lambda s** 0,039 suspension creep factor

#### Loss factors

- Qtp** 0,464 total Q-factor considering all losses
- Qm** 2,216 mechanical Q-factor of driver in free air considering Rms only
- Qes** 0,585 electrical Q-factor of driver in free air considering Re only
- Qts** 0,463 total Q-factor considering Re and Rms only

#### Other Parameters

- Vas** 13,9716 l equivalent air volume of suspension
- n0** 0,274 % reference efficiency (2 pi-radiation using Re)
- Lm** 86,58 dB characteristic sound pressure level (SPL at 1m for 1W @ Re)
- Lnom** 87,41 dB nominal sensitivity (SPL at 1m for 1W @ Zn)

- rmse** Z2,83 % root-mean-square fitting error of driver impedance Z(f)
- rmse** Hx2,52 % root-mean-square fitting error of transfer function Hx (f)

- Series resistor** 0 Ohmresistance of series resistor
- Sd** 128,68 cm<sup>2</sup> diaphragm area

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## Graphs

