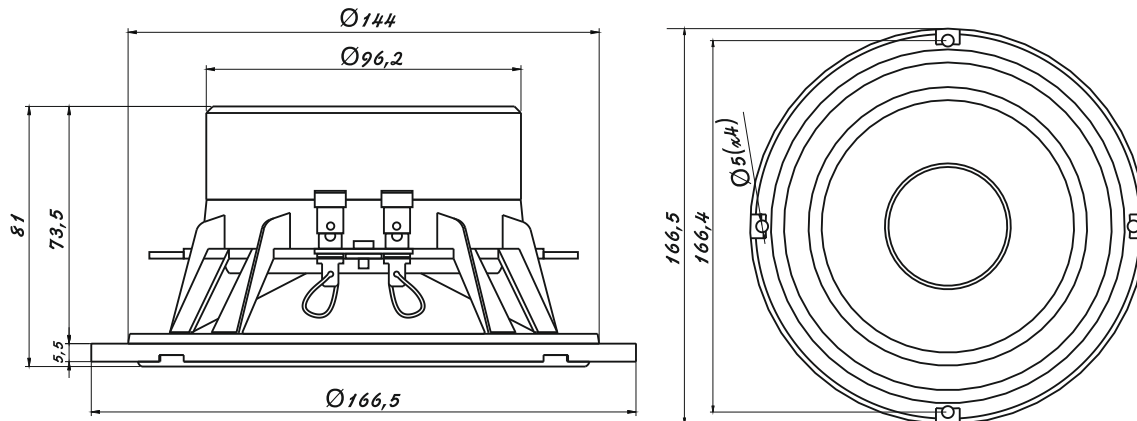


SUA17 6" Midbass Universal Serites



Measur

Electrical Parameters

- Re** 3,25 Ohm electrical voice coil resistance at DC
- Le** 0,104 mH frequency independent part of voice coil inductance
- L2** 0,255 mH para-inductance of voice coil
- R2** 8,03 Ohm electrical resistance due to eddy current losses
- Cmes** 635,58 μ F electrical capacitance representing moving mass
- Lces** 12,27 mH electrical inductance representing driver compliance
- Res** 11,91 Ohm resistance due to mechanical losses
- Fs** 57 Hz driver resonance frequency

Mechanical Parameters (using laser)

- Mms** 17,878 g mechanical mass of driver diaphragm assembly including air load and voice coil
- Mmd (Sd)** 16,15 g mechanical mass of voice coil and diaphragm without air load
- Rms** 2,362 kg/s mechanical resistance of total-driver losses
- Cms** 0,436 mm/N mechanical compliance of driver suspension
- Kms** 2,29 N/m mmechanical stiffness of driver suspension
- Bl** 5,304 force factor (Bl product)
- Lambda s** 0,028 suspension creep factor

Loss factors

- Qtp** 0,582 total Q-factor considering all losses
- Qms** 2,711 mechanical Q-factor of driver in free air considering Rms only
- Qes** 0,740 electrical Q-factor of driver in free air considering Re only
- Qts** 0,582 total Q-factor considering Re and Rms only

Other Parameters

- Vas** 10,8737 l equivalent air volume of suspension
- n0** 0,261 % reference efficiency (2 pi-radiation using Re)
- Lm** 86,37 dB characteristic sound pressure level (SPL at 1m for 1W @ Re)
- Lnom** 87,27 dB nominal sensitivity (SPL at 1m for 1W @ Zn)

- rmse Z** 4,11 % root-mean-square fitting error of driver impedance Z(f)
- rmse Hx** 2,49 % root-mean-square fitting error of transfer function Hx (f)

- Series resistor** 0 Ohm resistance of series resistor
- Sd** 132,73 cm² diaphragm area

AMP YOUR FEEL

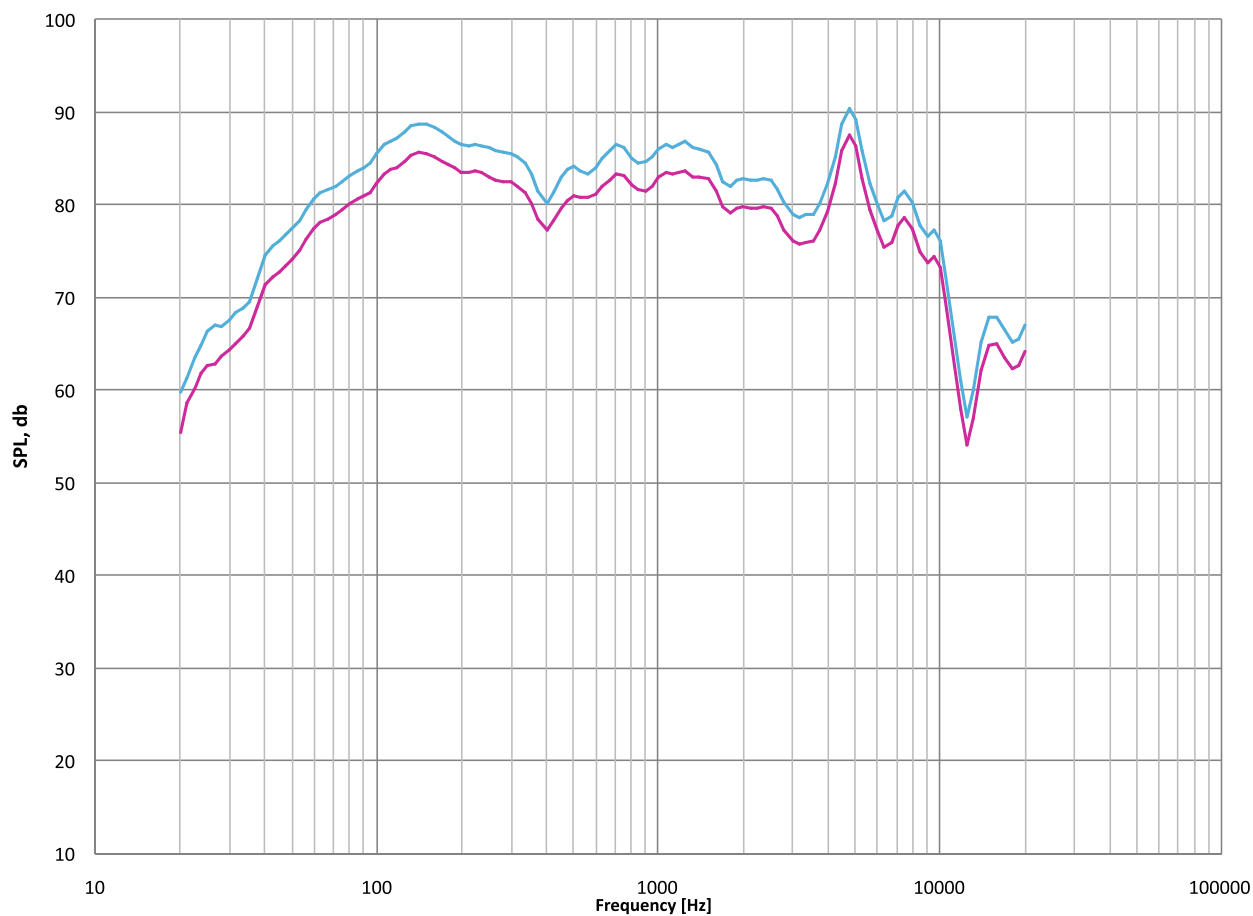
RUSSIA, MOSCOW



Graphs

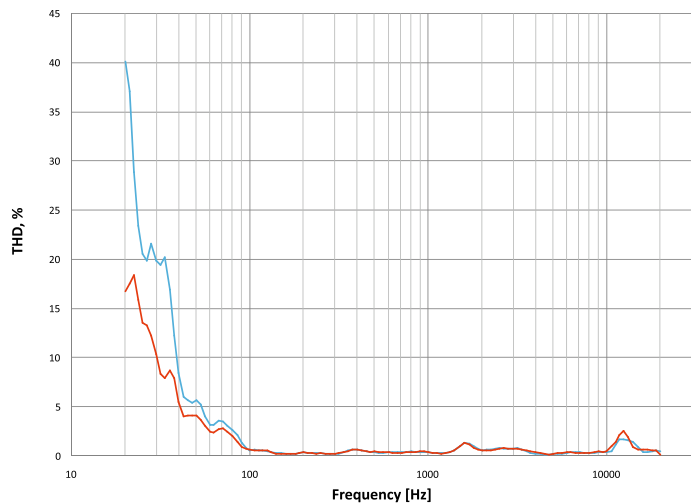
SPL Curve

— WF-1m-1w-40hm
— WF-1m-1w-20hm



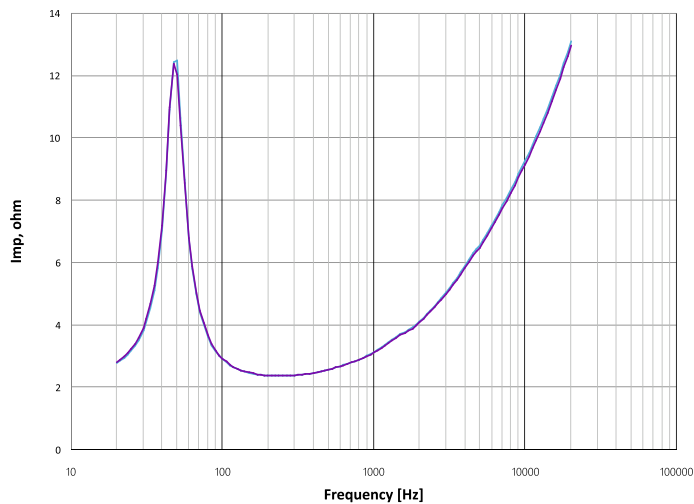
THD Curve

— WF-1m-1w-40hm
— WF-1m-1w-20hm

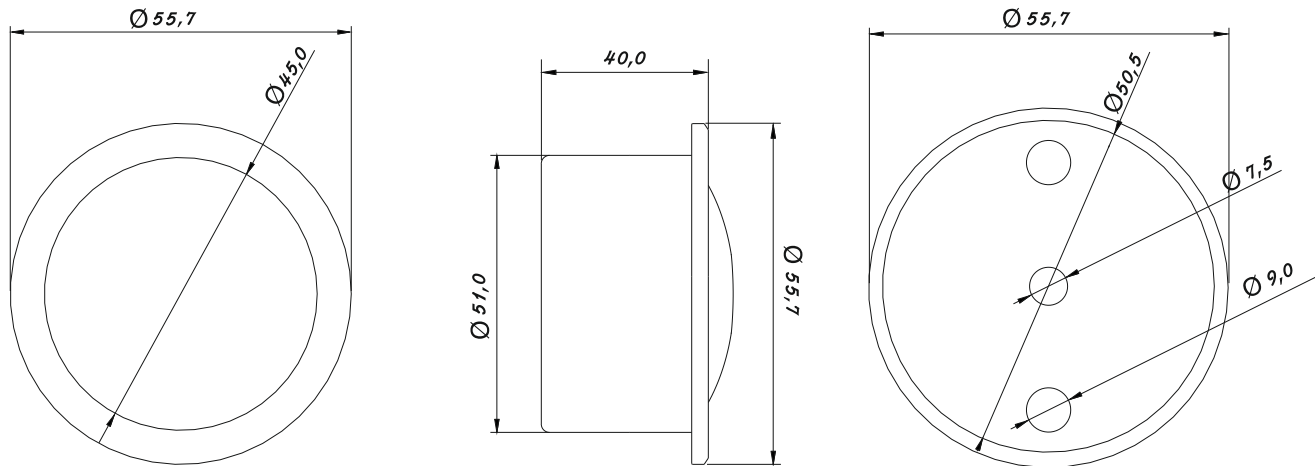


IMP Curve

— WF-1m-1w-40hm
— WF-1m-1w-20hm



TUA-25 1" Tweeter Universal Series



Measur

Electrical Parameters

Re 3,02 Ohm electrical voice coil resistance at DC
Le 0,014 mH frequency independent part of voice coil inductance
L2 0,006 mH para-inductance of voice coil
R2 0,68 Ohm electrical resistance due to eddy current losses
Cmes 206,54 μ F electrical capacitance representing moving mass
Lces 0,44 mH electrical inductance representing driver compliance
Res 2,96 Ohm resistance due to mechanical losses
Fs 526,3 Hz driver resonance frequency

Mechanical Parameters (using laser)

Mms 0,506 g mechanical mass of driver diaphragm assembly including air load and voice coil
Mmd (Sd) 0,482 g mechanical mass of voice coil and diaphragm without air load
Rms 0,828 kg/s mechanical resistance of total-driver losses
Cms 0,181 mm/N mechanical compliance of driver suspension
Kms 5,53 N/m mmechanical stiffness of driver suspension
Bl 1,565 force factor (Bl product)
Lambda s 0,161 suspension creep factor

Loss factors

Qtp 1,021 total Q-factor considering all losses
Qms 2,019 mechanical Q-factor of driver in free air considering Rms only
Qes 2,063 electrical Q-factor of driver in free air considering Re only
Qts 1,021 total Q-factor considering Re and Rms only

Other Parameters

Vas 0,0146 l equivalent air volume of suspension
n0 0,099 % reference efficiency (2 pi-radiation using Re)
Lm 82,16 dB characteristic sound pressure level (SPL at 1m for 1W @ Re)
Lnom 83,38 dB nominal sensitivity (SPL at 1m for 1W @ Zn)

rmse Z 17,68 % root-mean-square fitting error of driver impedance Z(f)
rmse Hx 11,54 % root-mean-square fitting error of transfer function Hx (f)

Series resistor 0 Ohm resistance of series resistor
Sd 7,55 cm² diaphragm area

AMP YOUR FEEL

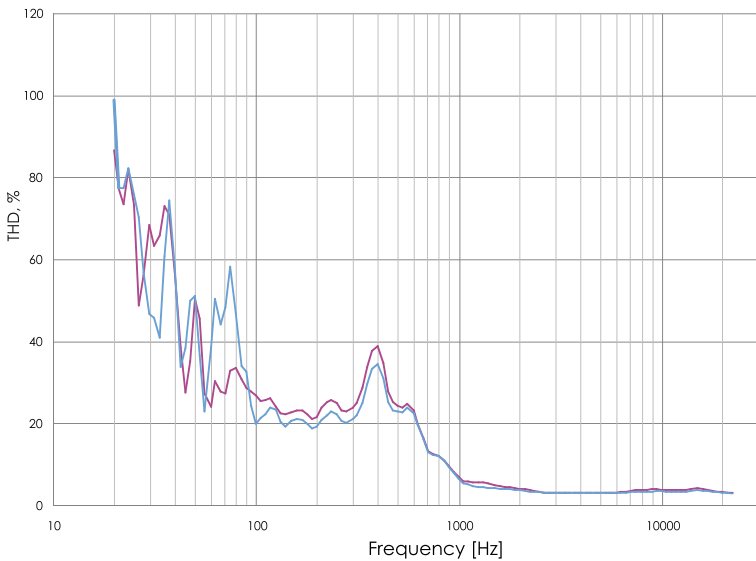
RUSSIA, MOSCOW



Graphs

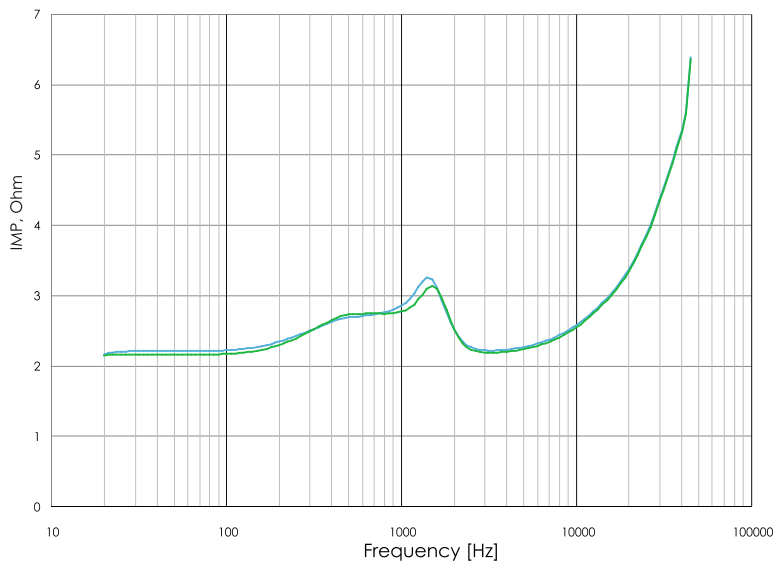
THD Curve

■ TW-1m-1w-40hm
■ TW-1m-1w-20hm



IMP Curve

■ TW-1m-1w-40hm
■ TW-1m-1w-20hm



SPL Curve

■ TW-1m-1w-40hm
■ TW-1m-1w-20hm

