

Jantzen Audio Denmark

DIY-KIT JA5006 + JA2806

Two-way bookshelf/standmount speaker

The Jantzen Audio JA5006/2806 kit incorporates the 5" JA5006 midbass driver and JA2806, 28 mm soft dome tweeter.

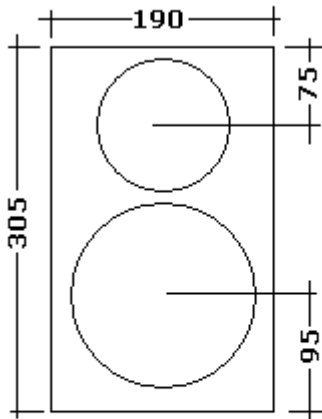


Fig. 1. Kit drivers, JA5006 and JA2806.

The kit is developed for an 8.5 liter net volume cabinet, e.g. PartsExpress Cabinet Kit #302-700.

To ensure proper performance from the shown crossover, the following front panel dimensions and placement of drivers should be maintained carefully.

JA5006/2806 KIT



tweeter rebate 4.5 mm
midbass rebate 4.5 mm

cabinet dimension:
190 (W) x 305 (H) x 254 (D)
19 mm MDF for all panels
except front panel.
Front panel 25 mm MDF

Fig. 2. Front panel dimensions and driver placement.

JA port 900025, 35 (ID) x 68 mm can be used. Cut length to a total of 60 mm.

JA5006+JA2806

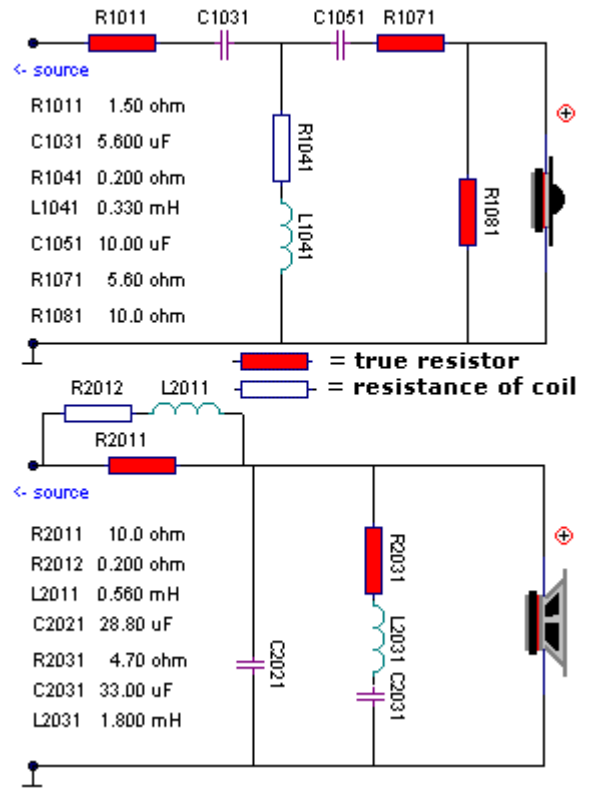


Fig. 3. JA5006/2806 parallel crossover.

1. L2011 and L1041: DCR = 0.1-0.3 ohm allowed.
2. L2031: DCR = 0.3-0.6 ohm allowed. Use cored coil.
3. 28.8 uF = 22 + 6.8 uF in parallel.

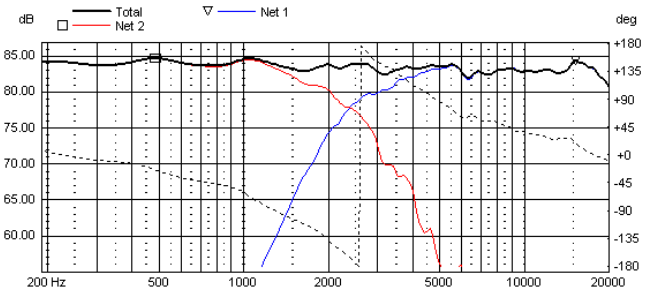


Fig. 4. Point of crossover = 2.5 kHz.

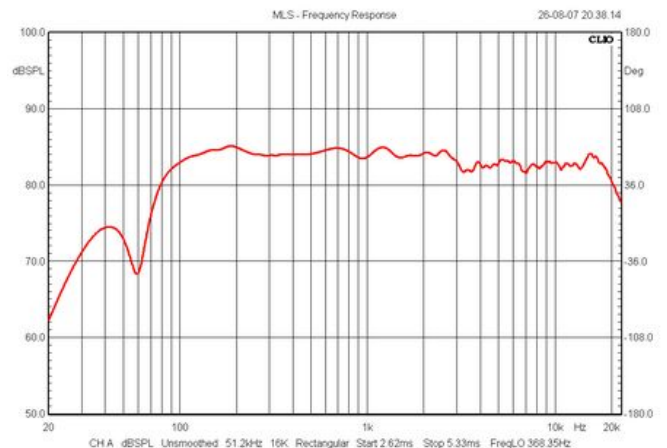


Fig. 5. System sensitivity = 84 dB/2.8V/1m.

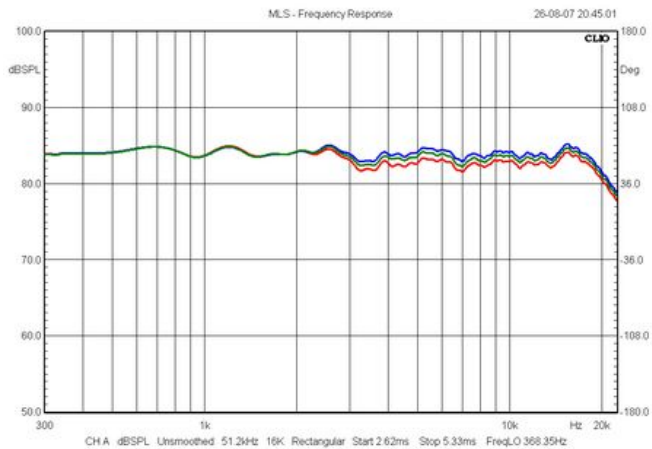


Fig. 6. Tweeter level adjustment. Red:R1011 =1.5 ohm
Green: R1011 = 0.82 ohm. Blue: R1011 = 0 ohm.

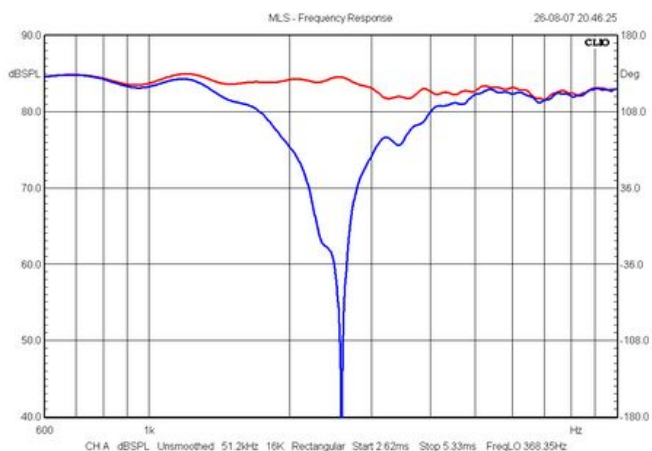


Fig. 7. Red = SPL with same polarity of drivers. Blue = SPL with inverted tweeter polarity.

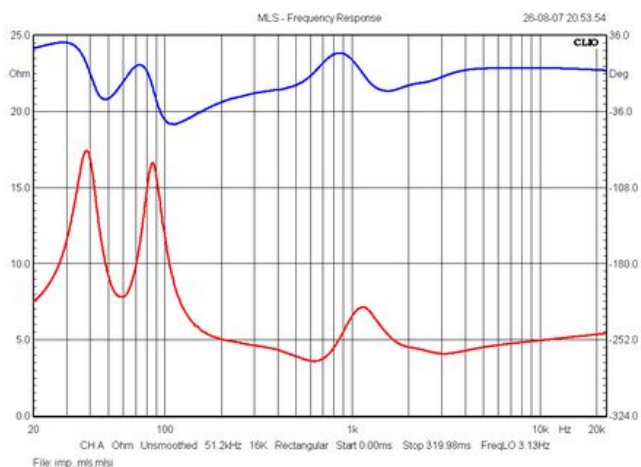


Fig. 8. System impedance vs. frequency.

Kit components for two speakers:

- 2 x Jantzen Audio JA5006, 5" midbass driver.
- 2 x Jantzen Audio JA2806, 1" soft dome tweeter.
- 2 pcs. 0.56 mH coil, e.g. JA #1896
- 2 pcs. 0.33 mH coil, e.g. JA #1835
- 2 pcs. 1.8 mH cored coil/notch filter, e.g. JA #2340
- 4 pcs. 22 uF Cross Cap
- 2 pcs. 6.8 uF Cross Cap
- 2 pcs. 33 uF MKT Cap
- 2 pcs. 5.6 uF Cross Cap
- 2 pcs. 10 uF Cross Cap.
- 2 pcs. 10 ohm, 10W MOX, resistor
- 2 pcs. 4.7 ohm, 5 W MOX, resistor
- 2 pcs. 1.5 ohm, 5 W MOX, resistor
- 2 pcs. 5.6 ohm, 5 W MOX, resistor
- 2 pcs. 10 ohm, 5 W MOX, resistor
- Ports: 2 pcs. JA 900025.
- Terminals: JA Satin Nickel, two pairs.



Fig. 9. Finished speaker in PartsExpress cabinet, #302-700.