

# Jantzen Audio Denmark

## DIY-KIT JA6006 + JA2806

### Two-way bookshelf/standmount speaker

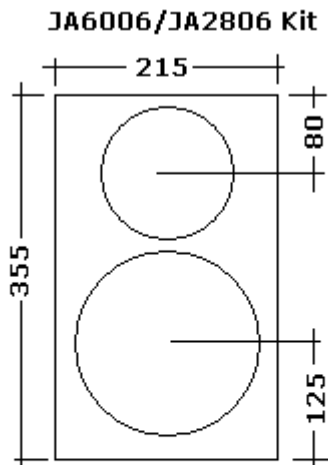
The Jantzen Audio JA6006/2806 kit incorporates the 6" JA6006 midbass driver and JA2806, 28 mm soft dome tweeter.



Fig. 1. JA6006 and JA2806 drivers.

The kit is developed for a 15-16 litre net volume cabinet, e.g. PartsExpress Cabinet Kit #302-720.

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



**215 (W) x 355 (H) x 320 (D) mm**  
**Tweeter rebate: 4.5 mm**  
**Midbass rebate: 5.5 mm**  
**19 mm MDF for all panels except front.**  
**Front panel: 25 mm MDF.**

Fig. 2. Front panel dimensions and driver placement.  
 Net volume = 15.5 litre.  
 JA port 900023 (50 (ID) x 145 mm) can be used. Cut length to a total of 75 mm.

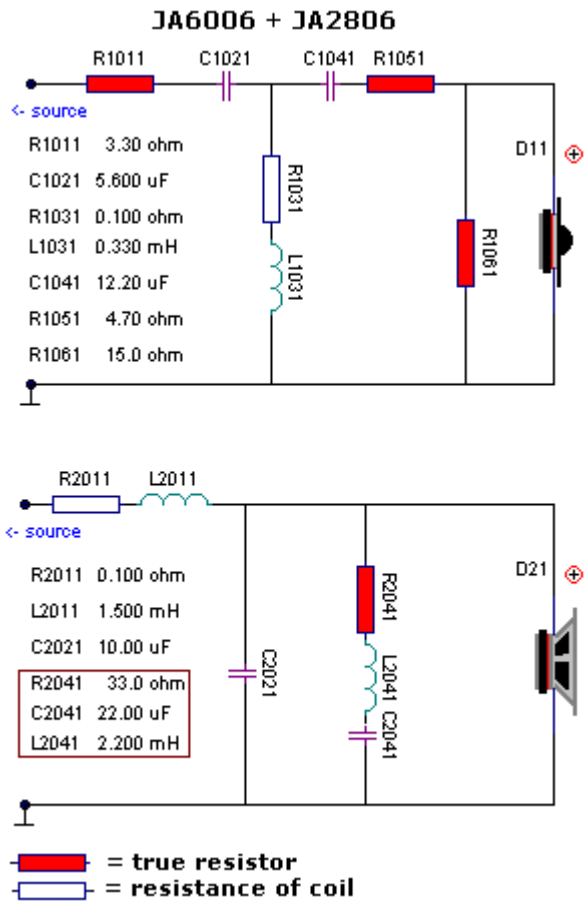


Fig. 3. JA6006/2806 parallel crossover.

1. L2011 & L1031: DCR = 0.1-0.3 ohm allowed.
2. L2041: DCR 0.2-0.8 ohm allowed. Use cored coil, e.g. 0.8 mm wire.
3. (12.2 uF = 10 + 2.2 uF in parallel)

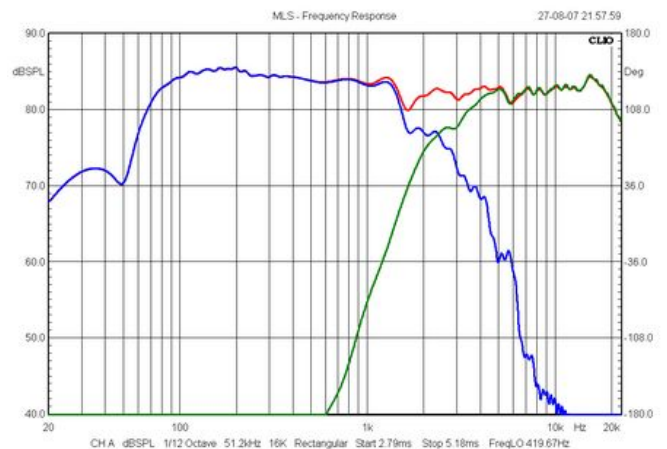


Fig. 4. SPL of drivers driven from crossover. Point of crossover = 2.3 kHz.

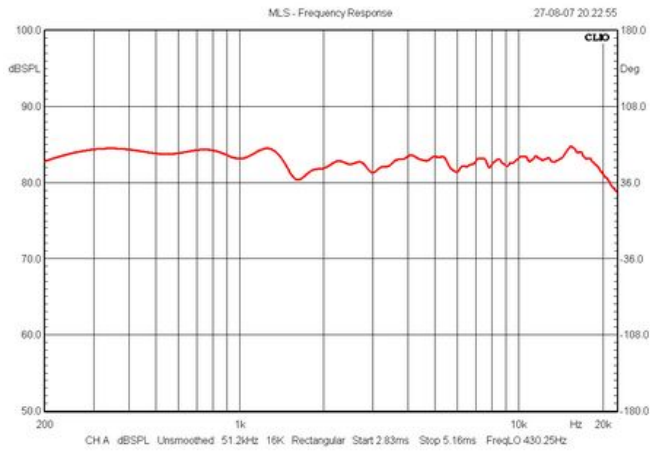


Fig. 5. System sensitivity = 84 dB/2.8V/1m.

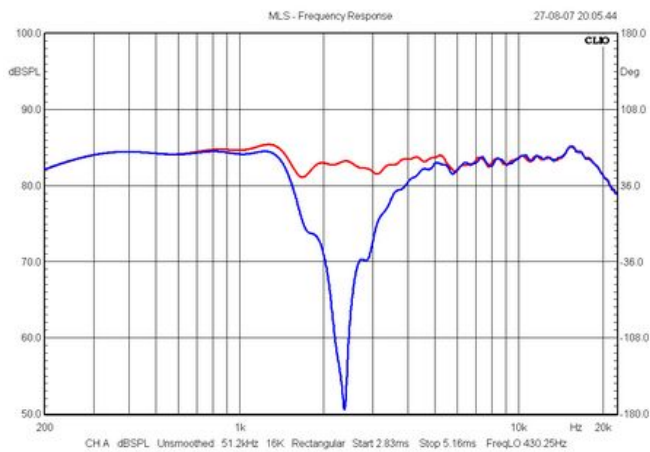


Fig. 6. Red = SPL with same polarity of drivers. Blue = SPL with inverted tweeter polarity.

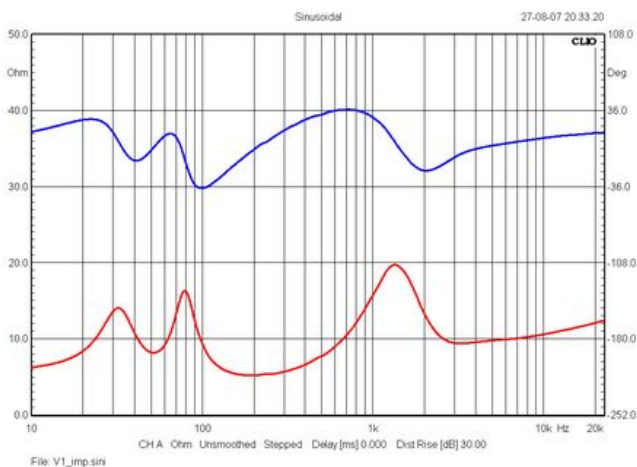


Fig. 7. System impedance.  
Minimum 5.5 ohms @ 200 Hz.

### Kit components:

- 2 x Jantzen Audio JA6006, 6" midbass driver.
- 2 x Jantzen Audio JA2806, 1" soft dome tweeter.
- 2 pcs. 1.5 mH coil, e.g. JA #1095
- 2 pcs. 0.33 mH coil, e.g. JA #1835
- 2 pcs. 2.2 mH cored coil (notch filter), e.g. JA #2241
- 2 pcs. 22 uF Cross Cap
- 2 pcs. 5.6 uF Cross Cap
- 4 pcs. 10 uF MKT Cap
- 2 pcs. 2.2 uF Cross Cap
- 2 pcs. 33 ohm, 10W MOX, resistor
- 2 pcs. 3.3 ohm, 5 W MOX, resistor
- 2 pcs. 4.7 ohm, 5 W MOX, resistor
- 2 pcs. 15 ohm, 5 W MOX, resistor
- Ports: 2 pcs. JA 900023, 50 (Ø) x 145 mm, cut to 75 mm length.
- Terminals: JA Satin Nickel, 2 pairs.



Fig. 8. Finished system in PartExpress cabinet 302-720.