



116 WR 26 81 SD 8Ω

850102

Small high quality woofer/midrange speaker with Peerless 'Sandwich' cone.

Due to the heavy magnet and the resulting low Q this speaker gives a well-controlled bass in a very small reflex box of 3-6 ltrs. Its main applications are, however, in small closed box satellite systems down to 1 ltr. or as midrange in a three-way-system with separate volume of about 0.8 ltrs.

A remarkable characteristic is the very robust extra thick iron plate basket with a nice structure lackering.

CSC 116

**Thiele Small parameters:**

|   |             |           |
|---|-------------|-----------|
| Nominal impedance   | Zn (Ω)      | 8         |
| Minimum impedance/at freq.                                | Zmin (Ω/Hz) | 6.2 / 387 |
| Maximum impedance   | Zo (Ω)      | 31.6      |
| Dc resistance   | Re (Ω)      | 5.6       |
| Voice coil inductance                                     | Le (mH)     | 0.9       |
| Capacitor in series with 8 Ω (for impedance compensation) | Cc (μF)     | 7         |
| Resonance Frequency                                       | fs (Hz)     | 74.2      |
| Mechanical Q factor                                       | Qms         | 2.41      |
| Electrical Q factor                                       | Qes         | 0.52      |
| Total Q factor  | Qts         | 0.43      |
| F (Ratio fs/Qts)  | F (Hz)      | 167       |
| Mechanical resistance                                     | Rms (Kg/s)  | 6.2       |
| Moving mass   | Mms (g)     | 1.20      |
| Suspension compliance                                     | Cms (mm/N)  | 0.74      |
| Effective cone diameter                                   | D (cm)      | 8.6       |
| Effective piston area                                     | Sd (cm²)    | 58        |
| Equivalent volume   | Vas (ltrs)  | 3.4       |
| Force factor  | Bl (N/A)    | 5.6       |
| Reference voltage sensitivity                             | (dB)        | 86.7      |
| Re 2.83V 1m at 387 Hz (Calculated)                        |             |           |

|             | Free air  | Common | Baffled |
|-------------|-----------|--------|---------|
| Zn (Ω)      | 8         |        |         |
| Zmin (Ω/Hz) | 6.2 / 387 |        |         |
| Zo (Ω)      | 31.6      |        |         |
| Re (Ω)      | 5.6       |        |         |
| Le (mH)     | 0.9       |        |         |
| Cc (μF)     | 7         |        |         |
| fs (Hz)     | 74.2      |        | 72.8    |
| Qms         | 2.41      |        | 2.46    |
| Qes         | 0.52      |        | 0.53    |
| Qts         | 0.43      |        | 0.43    |
| F (Hz)      | 167       |        | 167     |
| Rms (Kg/s)  | 6.2       | 1.20   | 6.5     |
| Mms (g)     |           | 0.74   |         |
| Cms (mm/N)  |           | 8.6    |         |
| D (cm)      |           | 58     |         |
| Sd (cm²)    |           | 3.4    |         |
| Vas (ltrs)  |           | 5.6    |         |
| Bl (N/A)    |           |        | 86.7    |

**Magnet and voice coil parameters:**

|                     |         |      |
|---------------------|---------|------|
| Voice coil diameter | d (mm)  | 26   |
| Voice coil length   | h (mm)  | 9    |
| Voice coil layers   | n       | 2    |
| Flux density in gap | B (T)   | 1.02 |
| Total useful flux   | (mWb)   | 0.70 |
| Height of the gap   | hg (mm) | 6    |
| Diameter of magnet  | dm (mm) | 81   |
| Height of magnet    | hm (mm) | 15   |
| Weight of magnet    | (kg)    | 0.32 |

**Max linear SPL:**

