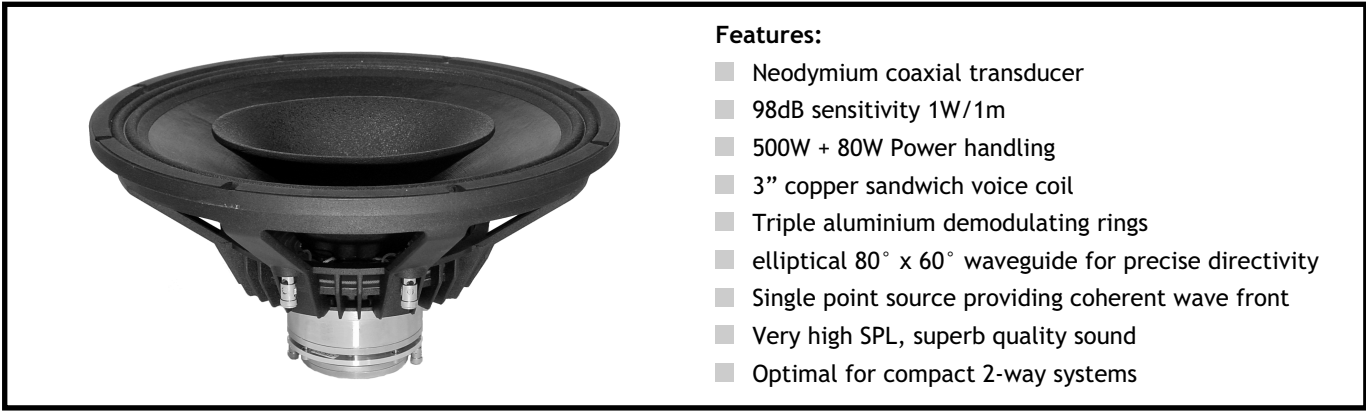


15CN680

Neodymium Coaxial Transducer

Coaxial series

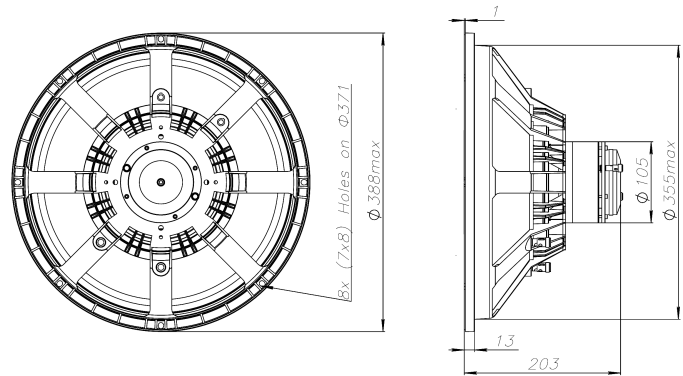


Features:

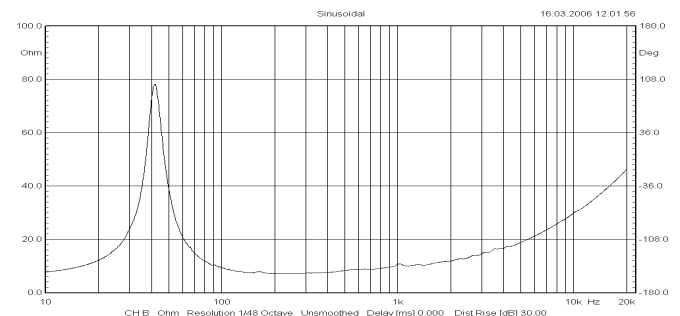
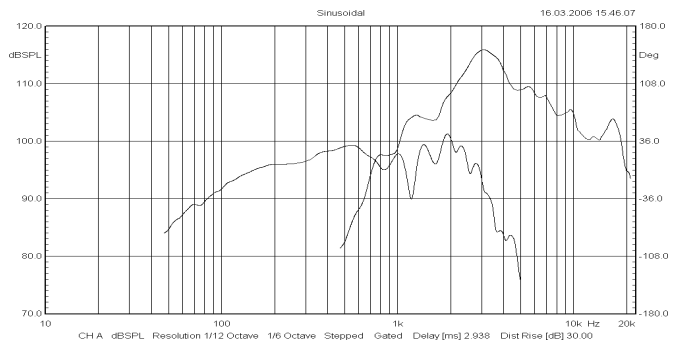
- Neodymium coaxial transducer
- 98dB sensitivity 1W/1m
- 500W + 80W Power handling
- 3" copper sandwich voice coil
- Triple aluminium demodulating rings
- elliptical 80° x 60° waveguide for precise directivity
- Single point source providing coherent wave front
- Very high SPL, superb quality sound
- Optimal for compact 2-way systems

SPECIFICATIONS

| APPLICATION | | Transducer | |
|-------------------------------|------------------------------------|-------------------|--------|
| Nominal impedance | Ohm | 8 | |
| Power handling AES noise | W | 500 | |
| Sensitivity (1W/1m) | dB | 98 | |
| Frequency response | Hz | 40 - 2000 | |
| Voice coil diameter | mm | 77 (3") | |
| Voice coil material | | Cu | |
| Voice coil winding depth | mm | 19 | |
| Magnet gap depth | mm | 8 | |
| Basket | | Cast Aluminium | |
| Effect. diaphragm diameter D | mm | 335 | |
| THIELE - SMALL PARAMETERS | | | |
| Resonance frequency | Fs | Hz | 39 |
| DC resistance | Re | Ohm | 5.80 |
| Mechanical Q factor | Qms | | 6.86 |
| Electrical Q factor | Qes | | 0.37 |
| Total Quality factor | Qts | | 0.35 |
| Equivalent volume | Vas | L | 157.8 |
| Moving mass | Mms | kg | 0.107 |
| Mechanical compl. | Cms | mm/N | 0.160 |
| BL factor | BL | Tesla m | 20.17 |
| Effective piston area | Sd | m ² | 0.0850 |
| Max. linear excursion | Xmax | mm | ± 5.5 |
| SPECIFICATIONS HIGH FREQUENCY | | | |
| Nominal impedance | Ohm | 8 | |
| Power handling AES | W | 80 | |
| Peak Power | W | 450 | |
| Sensitivity (1W/1m) | dB | 113 | |
| Frequency range | Hz | 600-20000 | |
| Recommended crossover | Hz | 1200 | |
| Voice coil diameter | mm | 80° x 60° (1.75") | |
| Magnet material | | Neodymium | |
| Fluchs density | T | 2.2 | |
| Voice coil material | Copper Clad Aluminium | | |
| | (2Layers in and outside of the VC) | | |
| Voice coil former | | Kapton™ | |
| Diaphragm material | | Polyester | |



Frequency response measured 1W (2.38V) at 1m in a closed enclosure of 100 litre.



| MOUNTING INFORMATION | | |
|-------------------------|----|-------------|
| Overall diameter | mm | 388 |
| Mounting holes diameter | mm | 8 x (7 x 8) |
| Bolt circle diameter | mm | 371 |
| Baffle cut-out diameter | mm | 358 |
| Overall depth | mm | 203 |
| Net weight | kg | 5.3 |

Recommended reflex enclosure:

60L/50Hz, -3dB=56Hz, BRD=130mm/150mm long

80L/45Hz, -3dB=50Hz, BRD=140mm/162mm long