

## HDS Nomex 8" Woofer



**Type Number:** 830869

### Features:

The High Definition Sound (HDS) NOMEX Series offers high-quality solutions for both multi-way speaker systems and vented box applications. Featuring "shorting rings" for low distortion and coils offering perfect linear compatibility with NOMEX cones, these audio transducers are characterized by their very open, very rich sound character.

**Driver Highlights:** Nomex diaphragm, 33 mm coil, AL



### Specs:

#### Electrical Data

|                       |      |      |     |
|-----------------------|------|------|-----|
| Nominal impedance     | Zn   | 8    | ohm |
| Minimum impedance     | Zmin | 6.9  | ohm |
| Maximum impedance     | Zo   | 81.5 | ohm |
| DC resistance         | Re   | 6    | ohm |
| Voice coil inductance | Le   | 1.8  | mH  |

#### T-S Parameters

|                         |     |      |                 |
|-------------------------|-----|------|-----------------|
| Resonance Frequency     | fs  | 29.5 | Hz              |
| Mechanical Q factor     | Qms | 3.94 |                 |
| Electrical Q factor     | Qes | 0.31 |                 |
| Total Q factor          | Qts | 0.29 |                 |
| Ratio fs/Qts            | F   | 102  |                 |
| Force factor            | Bl  | 9.6  | Tm              |
| Mechanical resistance   | Rms | 1.22 | Kg/s            |
| Moving mass             | Mms | 25.9 | g               |
| Suspension compliance   | Cms | 1.13 | mm/N            |
| Effective cone diameter | D   | 16.8 | cm              |
| Effective piston area   | Sd  | 221  | cm <sup>2</sup> |
| Equivalent volume       | Vas | 76.1 | ltrs            |
| Sensitivity             |     | 90   | dB              |
| Ratio BL/√(Re)          |     | 3.9  |                 |

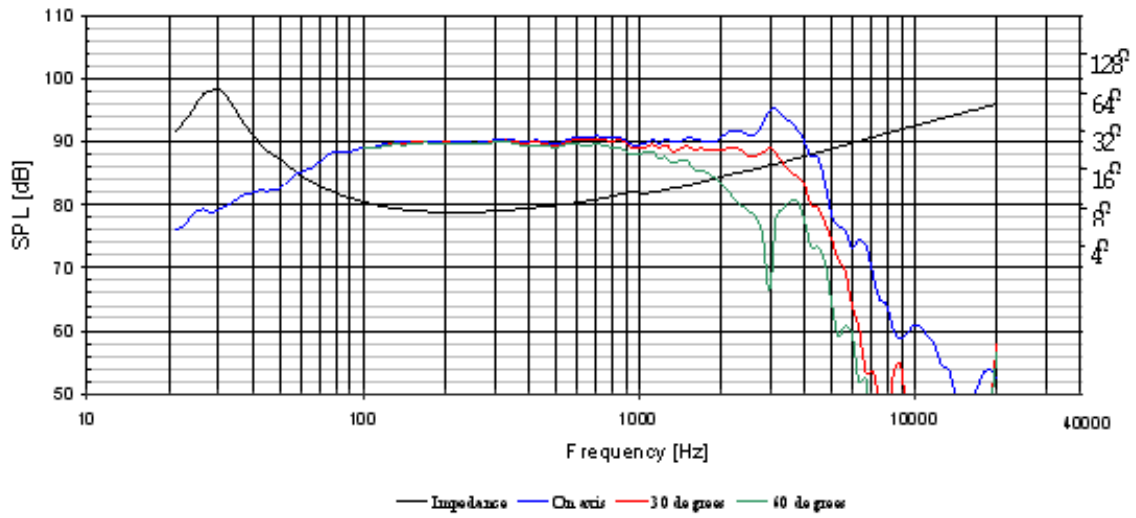
#### Power handling

|                                  |    |      |
|----------------------------------|----|------|
| 100h RMS noise test (IEC)        | -- | W    |
| Long-term Max System Power (IEC) | -- | W    |
| Max linear SPL (rms) @ power     | -- | dB/W |
| Short Term Max power             | -- | W    |

#### Voice Coil and Magnet Parameters

|                         |      |     |
|-------------------------|------|-----|
| Voice coil diameter     | 33   | mm  |
| Voice coil height       | 17   | mm  |
| Voice coil layers       | 4    |     |
| Height of the gap       | 6    | mm  |
| Linear excursion +/-    | 5.5  | mm  |
| Max mech. excursion +/- | --   | mm  |
| Flux density of gap     | --   | mWb |
| Total useful flux       | 1.03 | mWb |
| Diameter of magnet      | 102  | mm  |
| Height of magnet        | 20   | mm  |
| Weight of magnet        | 0.68 | Kg  |

## Frequency:



## Mechanical Dimensions:

