

## SDS 5 1/4" Midwoofer



Type Number: 830656

### Features:

The Superior Dynamic Sounds (SDS) Series provides the smallest but highest-quality subwoofers in the industry today. Leveraging the best in Danish craftsmanship, but manufactured to be very affordable, these audio transducers are ideal for use in small surround sound systems, but can also be used in a wide variety of end user products and applications. The speakers in this line are combinable with subwoofers in the SLS line--for example, these two products work extremely well together in home theater solutions.



Driver Highlights: Coated Paper cone Mms 32gr

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### Specs:

#### Electrical Data

|                       |      |      |     |
|-----------------------|------|------|-----|
| Nominal impedance     | Zn   | 8    | ohm |
| Minimum impedance     | Zmin | 6.7  | ohm |
| Maximum impedance     | Zo   | 40.5 | ohm |
| DC resistance         | Re   | 6    | ohm |
| Voice coil inductance | Le   | 1.5  | mH  |

#### T-S Parameters

|                         |     |      |                 |
|-------------------------|-----|------|-----------------|
| Resonance Frequency     | fs  | 62.4 | Hz              |
| Mechanical Q factor     | Qms | 3.63 |                 |
| Electrical Q factor     | Qes | 0.63 |                 |
| Total Q factor          | Qts | 0.54 |                 |
| Force factor            | Bl  | 5.5  | Tm              |
| Mechanical resistance   | Rms | 0.87 | Kg/s            |
| Moving mass             | Mms | 8.1  | g               |
| Suspension compliance   | Cms | 0.81 | mm/N            |
| Effective cone diameter | D   | 1.8  | cm              |
| Effective piston area   | Sd  | 91   | cm <sup>2</sup> |
| Equivalent volume       | Vas | 9.2  | ltrs            |
| Sensitivity (2.83V/1m)  |     | 87   | dB              |
| Ratio BL/√(Re)          |     | 2.2  |                 |
| Ratio fs/Qts            | F   | 116  |                 |

#### Power handling

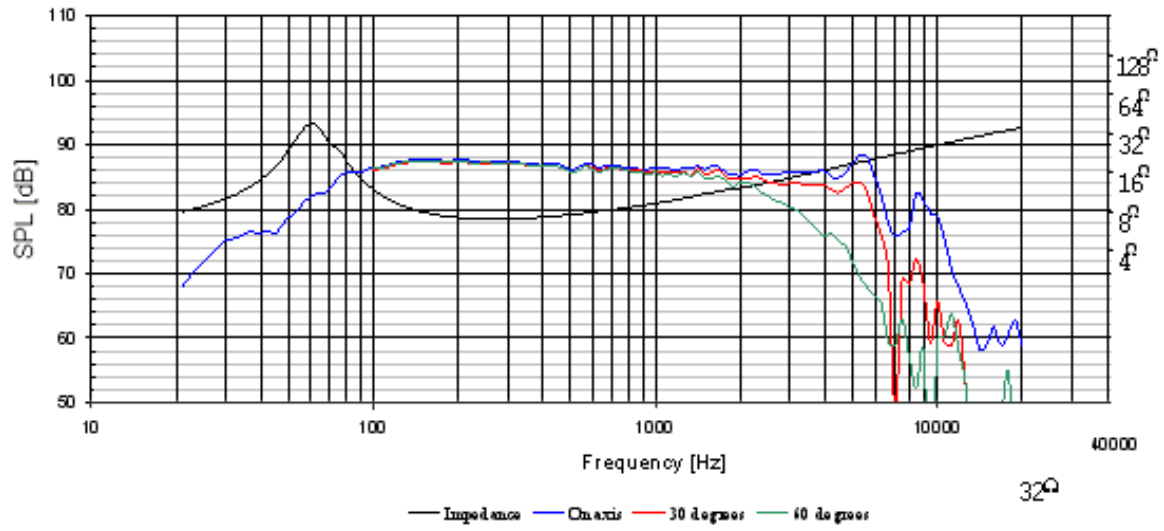
|                                 |    |      |
|---------------------------------|----|------|
| 100h RMS noise test (IEC)       | -- | W    |
| Long-term Max Power (IEC 18.3)  | -- | W    |
| Max linear SPL (rms) @ power    | -- | dB/W |
| Short Term Max power (IEC 18.2) | -- | W    |

#### Voice Coil and Magnet Parameters

|                         |      |     |
|-------------------------|------|-----|
| Voice coil diameter     | 26   | mm  |
| Voice coil height       | 13   | mm  |
| Voice coil layers       | 2    |     |
| Height of the gap       | 6    | mm  |
| Linear excursion +/-    | 3.5  | mm  |
| Max mech. excursion +/- | --   | mm  |
| Flux density of gap     | --   | mWb |
| Total useful flux       | 0.6  | mWb |
| Diameter of magnet      | 72   | mm  |
| Height of magnet        | 15   | mm  |
| Weight of magnet        | 0.23 | Kg  |

Notes:  
IEC specs refer to IEC 60268-5 third edition.  
All Tymphany products are RoHS compliant.

**Frequency:**



**Mechanical Dimensions:**

