

## SLS 10" Subwoofer



Type Number: 830668

### Features:

The SLS line combines high quality performance with an affordable design. These transducers are ideal for use in systems with high power handling requirements, and are logically combined with the SDS line.

Driver Highlights: Coated paper cone, 39 mm voice coil, AL shorting ring in magnet system.

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### Specs:

#### Electrical Data

|                                |      |      |     |
|--------------------------------|------|------|-----|
| Nominal impedance              | Zn   | 8    | ohm |
| Minimum impedance              | Zmin | 6.3  | ohm |
| Maximum impedance              | Zo   | 53.2 | ohm |
| DC resistance                  | Re   | 5.6  | ohm |
| Voice coil inductance          | Le   | 3.3  | mH  |
| Capacitor in series with x ohm | Cc   | --   | uF  |

#### T-S Parameters

|                         |     |      |                 |
|-------------------------|-----|------|-----------------|
| Resonance Frequency     | fs  | 33.3 | Hz              |
| Mechanical Q factor     | Qms | 4.85 |                 |
| Electrical Q factor     | Qes | 0.57 |                 |
| Total Q factor          | Qts | 0.51 |                 |
| Ratio fs/Qts            | F   | 65   |                 |
| Force factor            | Bl  | 10.2 | Tm              |
| Mechanical resistance   | Rms | 2.2  | Kg/s            |
| Moving mass             | Mms | 51.1 | g               |
| Suspension compliance   | Cms | 0.45 | mm/N            |
| Effective cone diameter | D   | 20.7 | cm              |
| Effective piston area   | Sd  | 335  | cm <sup>2</sup> |
| Equivalent volume       | Vas | 69.3 | ltrs            |
| Sensitivity             |     | 88.7 | dB              |
| Ratio BL/√(Re)          |     | 4.3  |                 |

#### 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     | 39   | mm  |
| Voice coil height       | 24   | mm  |
| Voice coil layers       | 4    |     |
| Height of the gap       | 8    | mm  |
| Linear excursion +/-    | 8    | mm  |
| Max mech. excursion +/- | --   | mm  |
| Flux density of gap     | --   | mWb |
| Total useful flux       | 1.3  | mWb |
| Diameter of magnet      | 115  | mm  |
| Height of magnet        | 22   | mm  |
| Weight of magnet        | 0.87 | Kg  |

