

[> Home](#)

[> Products](#)

[> Technology](#)

[> Plans & DIY](#)

[> Ordering](#)

[> Reviews](#)

[> About us](#)

[> FAQ](#)

[> Contact](#)

DS800 series

8" subwoofer drivers

New range of 8 " drivers

We now have three new 8" drivers. SW-8-16R is a GR Research dedicated open baffle sub driver. DS800 comes in a 4 and 8 ohm nominal version, DS800-3 and DS800-6 respectively.



SW-8-16R

DS800-3

DS800-6

Designed for accuracy

While designed specifically for our Direct Servo subwoofers, all our drivers are also suitable for conventional use. While many drivers are designed to look good and appear impressive on paper, we design our drivers with a music first philosophy. To be included in our range, they must be capable of accurate reproduction and not simply noise making power tools.



Our approach to driver design

All of our products are designed for uncompromising musical performance. We won't compromise this aspect to make our drivers look better on paper. Most drivers on the market add extra voice coil layers to create more attractive specs. The result is higher mass and inductance as well as reduced magnet strength. Typically this degrades performance above 40 Hz and often results in a subwoofer which can only function as a low frequency noise maker.

Our drivers are designed for low moving mass and high flux density. To further reduce inductance and distortion, we added a FEA (finite element analysis) designed short circuit ring effective above 30 Hz for.

Driver features

- Light-weight paper cone with light weight foam surround for low inertia
- Rigid 4 spoke cast aluminum basket
- FEA designed aluminum short circuit ring to reduce 2nd order distortion
- High linear excursion capability of 1" peak to peak (x_{max})
- High mechanical excursion capability 1.6" peak to peak (x_{mech}) to reduce risk of bottoming
- Very low inductance
- Woven wire lead in the spider to prevent rattling during high excursion
- Faston connectors for driver and sensing wires
- Single 2.8 ohm voice coil
- Mounting: 8.78" (222.5mm) outer diameter and 9/64" (3.5mm) recess
- Cutout: 7.56" (192mm); screw mounting pattern diameter: 208.5mm
- Two 3/4" stacked magnets for a total magnet height of 1-1/2"
- Cutout: 7.56"
- 5" clearance in depth

250W RMS max power

| Model | DS800-3ohm | DS800-6ohm |
|-----------------|------------------|------------------|
| Enclosure size | 0.7 cu ft sealed | 0.7 cu ft sealed |
| fs | 38Hz | 38Hz |
| BL | 7.9 | 12.6 |
| VAS | 24.7L | 21.3L |
| Qms | 1.917 | 2.275 |
| Qes | 0.503 | 0.476 |
| Qts | 0.398 | 0.393 |
| Sd | 208 cm2 | 208 cm2 |
| Re | 3.00 ohms | 6.00 ohms |
| Le | 0.8 mH | 1.6 mH |
| Cone finish | Paper | Paper |
| Power handling | 300W RMS | 300W RMS |
| Net weight | 11 lbs | 11 lbs |
| Shipping weight | 12.5 lbs | 12.5 lbs |

[Home](#) | [Products](#) | [Technology](#) | [DIY](#) | [Ordering](#) | [Reviews](#) | [FAQ](#) | [About us](#) | [Contact](#)

Copyright © 2006 - 2008 Rythmik Audio. All rights reserved. Site: [3 Corners Webworks](#)