

MODEL #: 250-SW04D-01

10 INCH (250 MM), 4 OHM DUAL VOICE COIL SUBWOOFER

PART #: 93052

This Red Line subwoofer is designed for car or home audio, featuring a rigid black powder coated cast aluminum basket, a treated pulp cones with a polyether foam surround, and comes with a decorative rubber trim ring which aids enclosure sealing. Its dual voice coil 200-watt subwoofer is designed to use the energy from both the left and right channels simultaneously.

- Subwoofer
- 10" (250 mm) basket diameter
- 100 watts, 4 ohms, 88 dB SPL
- 2" copper voice coil, aluminum former
- Ferrite magnet, die cast aluminum basket
- Engineered Abaca fiber cone, polyether foam surround

MISCO engineers test and analyze the performance of these speakers using the world's most sophisticated loudspeaker measurement systems including the Klippel Analyzer and the Klippel QC, which are used to validate final design.



Primary Specifications

| Size, Nominal (inch & mm) | 10" (250 mm) |
|--------------------------------------|--------------|
| Rated Impedance (Ω) | 4 + 4 |
| Continuous Power (W) | 100 |
| Sensitivity (dB SPL) ¹ | 88 |
| Frequency Range (Hz) | 20 - 200 |
| Resonant Frequency (Fs) (Hz) +/- 15% | 31 |



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More Specifications

OAKTRON by MISCO

| Application | Auto / Motorcycle, High-End Audio and Home Theater, Home Audio |
|---------------------------------|---|
| RoHS Compliant | Yes |
| DC Resistance (Re) (Ω) | 1.9 |
| Program Power (W) | 200 |
| Continuous Power (W) | 100 |
| | |

Small Signal Parameters

| Nominal Impedance (Z) (Ω) | 4 + 4 |
|---|-------|
| DC Resistance (Re) (Ω) | 1.9 |
| Voice Coil Inductance (Le) (mH) | 24.81 |
| Resonant Frequency (Fs) (Hz) +/- 15% | 31 |
| Mechanical Q Factor (Qms) | 6.96 |
| Electrical Q Factor (Qes) | 0.39 |
| Total Q Factor (Qts) | 0.37 |
| Moving Mass (Mms) (gm) | 106.6 |
| Suspension Compliance (Cms) (mm/N) | 0.26 |
| Mechanical Resistance (Rms) (kg/s) | 2.94 |
| Surface Area of Diaphragm (Sd) (cm²) | 330.1 |
| Compliance Equivalent Volume (Vas) (L) | 39.27 |
| Maximum Linear Excursion (Xmax) (mm) | 15.4 |
| Coil Winding Height (mm) | 40.3 |
| Magnetic Gap Height (mm) | 9.5 |
| Motor Force Factor (BL) (T•M) | 9.9 |
| Efficiency (η₀) (%) | 39.27 |
| Efficiency Bandwidth Product (EBP) (Fs/Qes) | 77.7 |

Material Descriptions

| Basket Type | Die cast aluminum basket with black powder coat finish |
|----------------------------|--|
| Terminal Size (mm) | Knurled push style spring connectors |
| Voice Coil Diameter (mm) | 51.3 |
| Voice Coil Wire Material | Round copper wire |
| Voice Coil Former Material | Aluminum |
| Magnet Material | Ferrite |
| Magnet Weight (g) | 2166 |
| | |





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Cone Body MaterialAbaca fiber with wet look treatCone Surround MaterialHeavy-duty polyether foamSpider MaterialDurable polycottonDust Cap MaterialInverted engineered paper domeNet Weight (kg)5.37







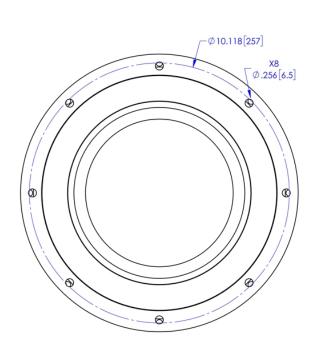


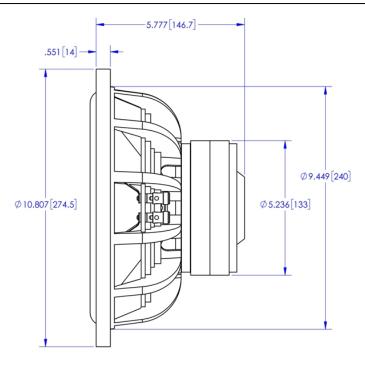


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