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

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) (cm^2)	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 (η_0) (%)	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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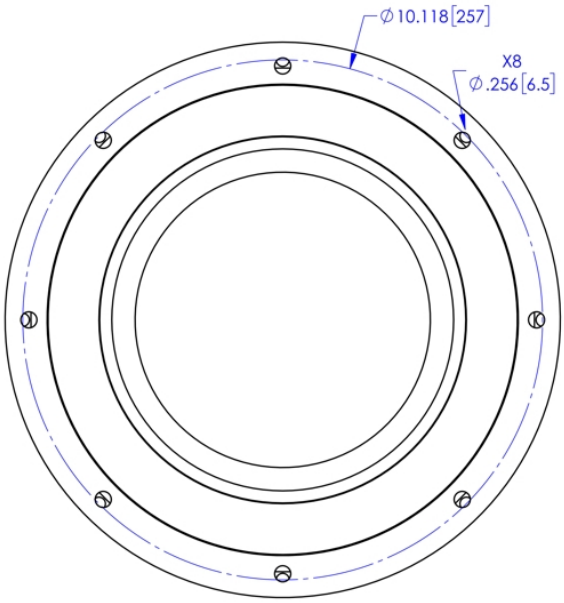
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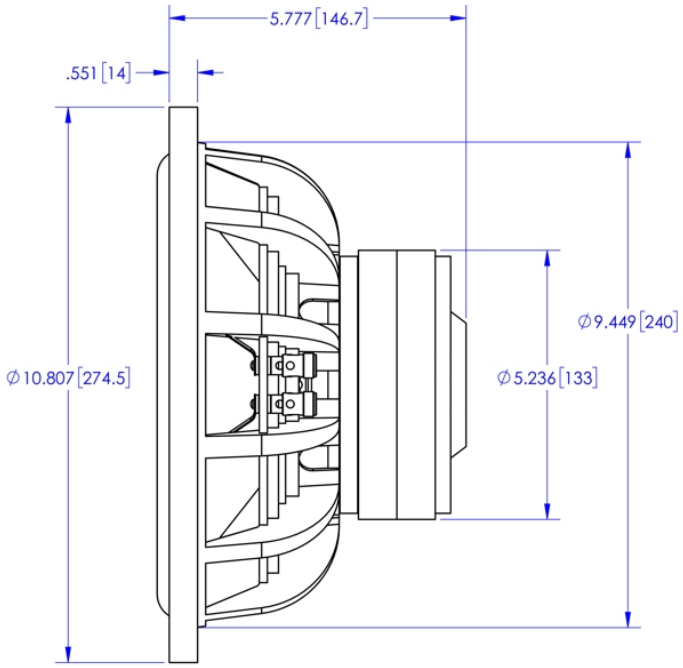
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Cone Body Material	Abaca fiber with wet look treat
Cone Surround Material	Heavy-duty polyether foam
Spider Material	Durable polycotton
Dust Cap Material	Inverted engineered paper dome
Net Weight (kg)	5.37

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