MODEL #: 250-WF04-01

10 INCH (250 MM) 4 OHM LEGACY WOOFER

PART #: 93053

We brought this woofer back to life to help out people who need to keep their old stereo's going. But this woofer has a lot to offer today's market. It was designed for music and to be installed into three-way or two-way system enclosures. Its high sensitivity gives you more output per watt. This cone is made from a vintage USA tool and pulp formula that creates a warm timbre one doesn't find in many of today's cones. The polyether foam surround is both compliant and super light weight so as to not dampen the bass transients.

- Woofer
- 10" (250 mm) basket diameter
- 50 watts, 4 ohms, 92 dB SPL
- 1.5" copper voice coil, polyimide film former
- Ferrite magnet, stamped-steel basket
- Made in America pulp 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. Oaktron by MISCO is the premium line of high performance, ready-to-ship transducers for a wide variety of applications including high fidelity, musical instrument, automotive and many more. From elegantly simple to highly specialized designs for unique and demanding applications, there is an Oaktron loudspeaker perfectly suited for your needs.

Pair this woofer with one of our MISCO Amplifiers.

Primary Specifications

Size, Nominal (inch & mm)	10" (250 mm)
Rated Impedance (Ω)	4
Continuous Power (W)	50
Sensitivity (dB SPL) [1]	92
Frequency Range (Hz)	16 - 4, 000
Resonant Frequency (Fs) (Hz) +/- 15%	28

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More Specifications

Application	Home Audio
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	3.8
Program Power (W)	100
Continuous Power (W)	50

Small Signal Parameters

Nominal Impedance (Z) (Ω)	4
DC Resistance (Re) (Ω)	3.8
Voice Coil Inductance (Le) (mH)	0.82
Resonant Frequency (Fs) (Hz) +/- 15%	28
Mechanical Q Factor (Qms)	11.95
Electrical Q Factor (Qes)	0.36
Total Q Factor (Qts)	0.35
Moving Mass (Mms) (gm)	29.4
Suspension Compliance (Cms) (mm/N)	1.11
Mechanical Resistance (Rms) (kg/s)	0.43
Surface Area of Diaphragm (Sd) (cm^2)	339.8
Compliance Equivalent Volume (Vas) (L)	181.78
Maximum Linear Excursion (Xmax) (mm)	5.4
Coil Winding Height (mm)	18.8
Magnetic Gap Height (mm)	7.9
Motor Force Factor (BL) (T•M)	7.4
Efficiency (η_0) (%)	1.05
Efficiency Bandwidth Product (EBP) (Fs/Qes)	77.7

Material Descriptions

Basket Type	Heavy-duty american stamped steel, black powder coat
Terminal Size (mm)	5.2 x 0.5 mm
Voice Coil Diameter (mm)	38.7
Voice Coil Wire Material	Copper
Voice Coil Former Material	Polyimide film
Magnet Material	Ferrite
Magnet Weight (g)	792
Cone Body Material	Engineered american pulp

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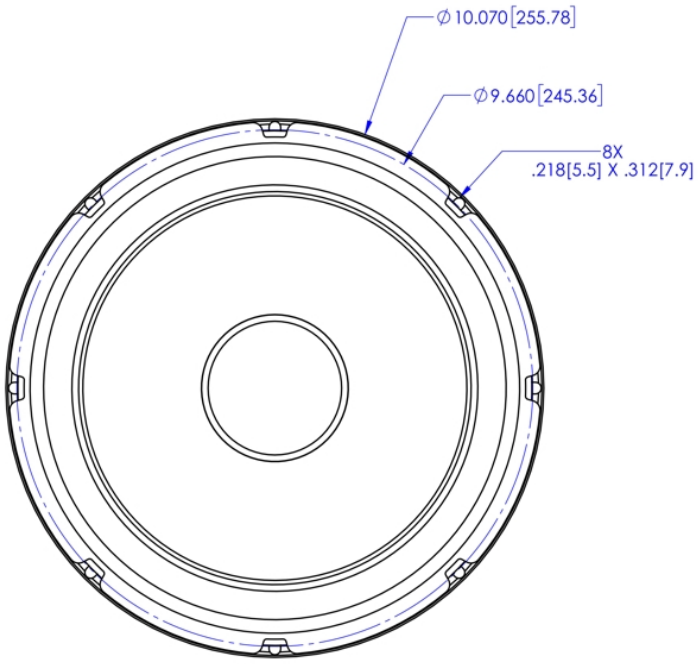
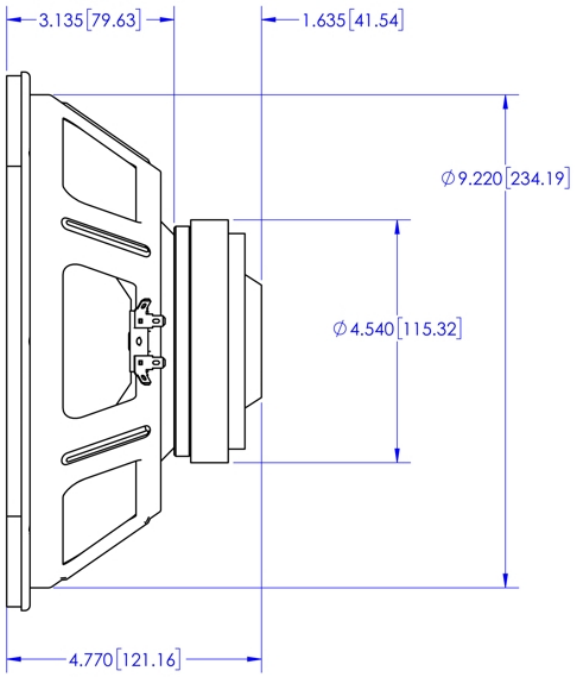
Cone Surround Material	Polyether foam
Spider Material	cotton
Dust Cap Material	Treated cloth
Net Weight (kg)	2.9





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