MODEL #: 250-WF04-02

10 INCH (250MM) 4 OHM, DUAL MAGNET WOOFER

PART #: 93054

The 93054 is a high-sensitivity woofer made for both sealed and vented enclosures within home theaters and live stereo music systems – a great replacement for a worn *Klipsch™* or *ESS AMT 1* tower speakers of similar size.

- Woofer
- 10 inch (250 mm) basket diameter
- 100 watts, 4 ohms, 94 dB SPL
- 2-inch aluminum voice coil, Kapton former
- Dual ferrite magnet, stamped steel basket
- Polypropylene cone, rubber 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 confirm the final design.

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)	100
Sensitivity (dB SPL) [1]	94
Frequency Range (Hz)	20 - 2, 000
Resonant Frequency (Fs) (Hz) +/- 15%	28

©2026 MISCO/Minneapolis Speaker Company Inc.

MODEL #: 250-WF04-02

10 INCH (250MM) 4 OHM, DUAL MAGNET WOOFER

PART #: 93054

More Specifications

Application	Arcade Gaming, High-End Audio and Home Theater, Home Audio
RoHS Compliant	No
DC Resistance (Re) (Ω)	3.6
Program Power (W)	200
Continuous Power (W)	100

Small Signal Parameters

Nominal Impedance (Z) (Ω)	4
DC Resistance (Re) (Ω)	3.6
Voice Coil Inductance (Le) (mH)	0.94
Resonant Frequency (Fs) (Hz) +/- 15%	28
Mechanical Q Factor (Qms)	12.86
Electrical Q Factor (Qes)	0.38
Total Q Factor (Qts)	0.3
Moving Mass (Mms) (gm)	52.0
Suspension Compliance (Cms) (mm/N)	0.57
Mechanical Resistance (Rms) (kg/s)	0.74
Surface Area of Diaphragm (Sd) (cm^2)	346.4
Compliance Equivalent Volume (Vas) (L)	97.52
Maximum Linear Excursion (Xmax) (mm)	7.9
Motor Force Factor (BL) (T•M)	9.5
Efficiency (η_0) (%)	0.61
Efficiency Bandwidth Product (EBP) (Fs/Qes)	74.1

Material Descriptions

Basket Type	Stamped steel
Terminal Size (mm)	5.2 x 0.5
Voice Coil Diameter (mm)	50.8
Voice Coil Wire Material	Aluminum
Voice Coil Former Material	Kapton
Magnet Material	Ferrite
Magnet Weight (g)	1077.3
Cone Body Material	Polypropylene
Cone Surround Material	Natural Rubber
Dust Cap Material	Polypropylene

©2026 MISCO/Minneapolis Speaker Company Inc.

Net Weight (kg)	5.16



©2026 MISCO/Minneapolis Speaker Company Inc.