MODEL #: MC62W-8C
**6.5 INCH (165 MM), 8 OHM WOOFER**
PART #: 93140

A multi-purpose woofer made for a variety of audio applications—home audio, automobile sound systems, indoor cabinet enclosures, and more. This 8 ohm, 6.5" driver includes a 28 Oz ferrite magnet, a paper cone with rubber surround for natural and responsive low frequencies, as well as a set of dual lug terminals for custom installation options when connecting this to your latest sound project.

- Woofer
- 6.5 in. (165 mm) steel basket diameter
- 50 watts, 8 ohm, 84 dB SPL
- 1.5 in. copper voice coil, Kapton former
- 28 Oz ferrite magnet
- Paper composite cone, rubber surround

MISCO engineers use the world's most sophisticated loudspeaker measurement systems, including the Klippel Analyzer, to maximize and validate the speaker's design, as well as the Klippel QC module to ensure perfect unit-to-unit consistency and reliability.



**Primary Specifications**

| | |
|---|---|
| **Size, Nominal (inch & mm)** | 6" (152 mm) |
| **Rated Impedance (Ω)** | 8 |
| **Continuous Power (W)** | 50 |
| **Sensitivity (dB SPL) [1]** | 84 |
| **Frequency Range (Hz)** | 28 - 8100 |
| **Resonant Frequency (Fs) (Hz) +/- 15%** | 40 |


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## More Specifications

| | |
|---|---|
| **Application** | Auto / Motorcycle, Home Audio, Indoor |
| **RoHS Compliant** | No |
| **DC Resistance (Re) (Ω)** | 7.6 |
| **Program Power (W)** | 100 |
| **Continuous Power (W)** | 50 |

## Small Signal Parameters

| | |
|---|---|
| **Nominal Impedance (Z) (Ω)** | 8 |
| **DC Resistance (Re) (Ω)** | 7.6 |
| **Voice Coil Inductance (Le) (mH)** | 0.76 |
| **Resonant Frequency (Fs) (Hz) +/- 15%** | 40 |
| **Mechanical Q Factor (Qms)** | 6.45 |
| **Electrical Q Factor (Qes)** | 0.46 |
| **Total Q Factor (Qts)** | 0.43 |
| **Moving Mass (Mms) (gm)** | 20.73 |
| **Suspension Compliance (Cms) (mm/N)** | 0.70 |
| **Mechanical Resistance (Rms) (kg/s)** | 0.84 |
| **Surface Area of Diaphragm (Sd) ($cm^2$)** | 132.73 |
| **Compliance Equivalent Volume (Vas) (L)** | 17.49 |
| **Maximum Linear Excursion (Xmax) (mm)** | 5.82 |
| **Coil Winding Height (mm)** | 19.56 |
| **Magnetic Gap Height (mm)** | 7.92 |
| **Motor Force Factor (BL) (T•M)** | 9.52 |
| **Efficiency ($\eta_0$) (%)** | 0.27 |
| **Efficiency Bandwidth Product (EBP) (Fs/Qes)** | 86.96 |

## Material Descriptions

| | |
|---|---|
| **Basket Type** | Stamped steel |
| **Terminal Size (mm)** | 5.2 x 0.5 (Dual lug) |
| **Voice Coil Diameter (mm)** | 38.1 |
| **Voice Coil Wire Material** | Copper |
| **Voice Coil Former Material** | Kapton |
| **Magnet Material** | Ferrite |
| **Magnet Weight (g)** | 793.79 |
| **Cone Body Material** | Paper composite |
| **Cone Surround Material** | Rubber |


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| | |
|---|---|
| **Dust Cap Material** | Felt |
| **Net Weight (kg)** | 2.34 |


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