

The FC32WP-D is a 3.5-inch square waterproof speaker built to withstand harsh conditions. Its robust design makes it ideal for outdoor use and demanding environments such as transit, intercoms, kiosks, and military operations. The speaker is specially treated to ensure it is protected from the elements and can deliver your message with clarity and force.

- The FC32WP-D is waterproof for outdoor use in any weather.
- The speaker has a durable construction that can withstand harsh conditions.
- The FC32WP-D is versatile and useful for alarm systems, voice range applications, transit, intercoms, kiosks, and military operations.
- The FC32WP-D boasts a strong ferrite magnet that produces a clear and forceful sound.
- The speaker is treated with acrylic for durability and reliable performance in various weather conditions.

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



#### Primary Specifications

|  |              |
|--|--------------|
| <b>Size, Nominal (inch &amp; mm)</b>         | 3" (77 mm)   |
| <b>Rated Impedance (<math>\Omega</math>)</b> | 8            |
| <b>Sensitivity (dB SPL) <sup>1</sup></b>     | 90           |
| <b>Frequency Range (Hz)</b>                  | 300 - 4, 500 |
| <b>Resonant Frequency (Fs) (Hz) +/- 15%</b>  | 436          |

### More Specifications

|   |   |
|---|---|
| <b>Application</b>                              | Military, Outdoor , Transit, Voice Communications |
| <b>RoHS Compliant</b>                           | Yes   |
| <b>DC Resistance (Re) (<math>\Omega</math>)</b> | 6.0   |
| <b>Program Power (W)</b>                        | 12  |

### Small Signal Parameters

|  |      |
|--|------|
| <b>Nominal Impedance (Z) (<math>\Omega</math>)</b> | 8    |
| <b>DC Resistance (Re) (<math>\Omega</math>)</b>    | 6.0  |
| <b>Voice Coil Inductance (Le) (mH)</b>             | 0    |
| <b>Resonant Frequency (Fs) (Hz) +/- 15%</b>        | 436  |
| <b>Mechanical Q Factor (Qms)</b>                   | 7.8  |
| <b>Electrical Q Factor (Qes)</b>                   | 3.29 |
| <b>Total Q Factor (Qts)</b>                        | 2.31 |

### Material Descriptions

|                                   |                            |
|-----------------------------------|----------------------------|
| <b>Basket Type</b>                | Zinc Plated, Stamped Steel |
| <b>Terminal Size (mm)</b>         | 5.2 mm x 0.5 mm            |
| <b>Voice Coil Diameter (mm)</b>   | 20.3                       |
| <b>Voice Coil Wire Material</b>   | Copper                     |
| <b>Voice Coil Former Material</b> | Aluminum                   |
| <b>Magnet Material</b>            | Ferrite                    |
| <b>Magnet Weight (g)</b>          | 136 (4.8 oz)               |
| <b>Cone Body Material</b>         | Acrylic Treated Cloth      |
| <b>Cone Surround Material</b>     | Acrylic Treated Cloth      |
| <b>Spider Material</b>            | Cotton                     |
| <b>Dust Cap Material</b>          | Acrylic Treated Cloth      |
| <b>Net Weight (kg)</b>            | 0.43                       |



