



# 950

|                                |               |
|--------------------------------|---------------|
| Nominal Diameter               | 5" / 13cm     |
| Rated Impedance                | 8 Ω           |
| Half space sensitivity (1W@1m) | 94 dB SPL     |
| Power Handling Capacity        | 80 W AES      |
| SPL max (continuous)           | 109 dB SPL    |
| Usable frequency range         | 300 - 4000 Hz |
| Speaker net mass               | 2.02 kg       |

## 5 inches midrange driver



### Architecture Highlights

- Noiseless natural convection Intercooling System
- Ferrite magnet system with symmetric BL(x) and Le(x)
- High definition CCAR vented voice coil
- Critical damping flat foam surround
- Lightweight basket

### Motor architecture

|                     |    |            |
|---------------------|----|------------|
| Magnet material     | -  | <b>Fe</b>  |
| Voice coil diameter | mm | <b>38</b>  |
| Voice coil length   | mm | <b>7.5</b> |
| Air gap height      | mm | <b>6</b>   |

### Typical characteristics

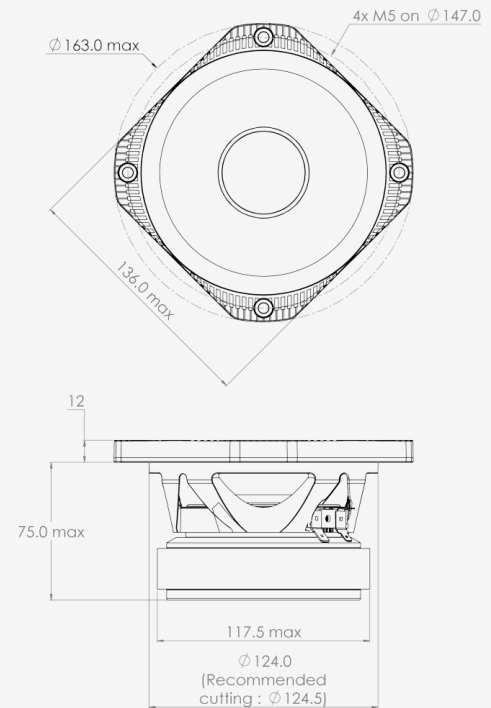
|                                |        |        |                   |
|--------------------------------|--------|--------|-------------------|
| Rated impedance                | Z      | Ω      | <b>8</b>          |
| Half space sensitivity (1W@1m) | -      | dB SPL | <b>94.0</b>       |
| Usable freq. range             | -      | HZ     | <b>300 - 4000</b> |
| Power handling capacity (AES)  | -      | W      | <b>80</b>         |
| Max Sound Pressure Level       | SPLmax | dB SPL | <b>109</b>        |
| Min. impedance modulus         | Zmin   | Ω@Hz   | <b>6.1@800</b>    |
| Voice-coil inductance @ 1kHz   | Le1k   | mH     | <b>0.599</b>      |
| Voice-coil inductance @ 10kHz  | Le10k  | mH     | <b>0.235</b>      |
| BL product                     | BL     | N/A    | <b>8.8</b>        |
| Moving mass                    | Mms    | kg     | <b>0.0081</b>     |

### Thiele-Small parameters

|                            |                      |                                  |                   |
|----------------------------|----------------------|----------------------------------|-------------------|
| Resonance frequency        | Fs                   | Hz                               | <b>200 (±)</b>    |
| DC Resistance              | Re                   | Ω                                | <b>5.3 (±0.5)</b> |
| Mechanical quality factor  | Qms                  | 1                                | <b>5.99</b>       |
| Electrical quality factor  | Qes                  | 1                                | <b>0.70</b>       |
| Total quality factor       | Qts                  | 1                                | <b>0.62</b>       |
| Suspension compliance      | Cms                  | 10 <sup>-6</sup> .m/N            | <b>80</b>         |
| Effective piston area      | Sd                   | m <sup>2</sup>                   | <b>0.0109</b>     |
| Equivalent Cas air load    | Vas                  | m <sup>3</sup>                   | <b>0.0013</b>     |
| Max linear excursion       | Xmax                 | mm                               | <b>± 2.5</b>      |
| Linear displacement volume | Vd                   | 10 <sup>-3</sup> .m <sup>3</sup> | <b>0.0273</b>     |
| Reference efficiency       | H                    | %                                | <b>1.45</b>       |
| Unity load volume          | Vas.Qts <sup>2</sup> | 10 <sup>-3</sup> .m <sup>3</sup> | <b>0.5</b>        |

### Absolute maximum ratings

|                               |      |                       |                   |
|-------------------------------|------|-----------------------|-------------------|
| Short term max. input voltage | Vmax | V                     | <b>50</b>         |
| Max.excursion before damage   | Xdam | mm                    | <b>± 3</b>        |
| Ambient operating temperature | Ta   | °C                    | <b>-10 to +50</b> |
| Storage temperature           |      | °C                    | <b>-20 to +70</b> |
| Environmental withstanding    |      | <b>Humidity proof</b> |                   |



### Application information

|  |                                  |                           |
|--|----------------------------------|---------------------------|
| Air volume occupied by the driver        | 10 <sup>-3</sup> .m <sup>3</sup> | <b>0.38</b>               |
| Speaker net mass                         | kg                               | <b>2.02</b>               |
| Baffle cut-out diameter (front mounting) | mm                               | <b>124.5</b>              |
| Bolt number & Metric diameter            | -                                | <b>4x M5</b>              |
| Bolt circle diameter                     | mm                               | <b>147.0</b>              |
| Max overall dimension (on ears)          | mm                               | <b>163.0</b>              |
| Max overall dimension (out of ears)      | mm                               | <b>136.0</b>              |
| Flange height                            | mm                               | <b>12.5</b>               |
| Max magnet diameter                      | mm                               | <b>117.5</b>              |
| Max depth (front mounting)               | mm                               | <b>75.0</b>               |
| Recommended reflex box                   | Lts / Hz                         | <b>1.5L sealed</b>        |
| Electrical connection                    | -                                | <b>6.35x0.8 + 4.8x0.5</b> |

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