



970

5 inches low-mid coaxial driver

| | |
|--------------------------------|---------------|
| Nominal Diameter | 5" / 13cm |
| Rated Impedance | 8 Ω |
| Half space sensitivity (1W@1m) | 90 dB SPL |
| Power Handling Capacity | 120 W AES |
| SPL max (continuous) | 107 dB SPL |
| Usable frequency range | 60 - 16000 Hz |
| Speaker net mass | 2.08 kg |



Architecture Highlights

- Time aligned coaxial HF driver
- Noiseless natural convection Intercooling System
- Ferrite magnet system with symmetric BL(x) and Le(x)
- Long excursion suspension with linear behavior for large signal
- Lightweight basket

Motor architecture

| | | |
|---------------------|----|-----------|
| Magnet material | - | Fe |
| Voice coil diameter | mm | 38 |
| Voice coil length | mm | 16 |
| Air gap height | mm | 6 |

Typical characteristics

| | | | |
|--------------------------------|--------|--------|------------------|
| Rated impedance | Z | Ω | 8 |
| Half space sensitivity (1W@1m) | - | dB SPL | 90.0 |
| Usable freq. range | - | Hz | 60 - 3000 |
| Power handling capacity (AES) | - | W | 120 |
| Max Sound Pressure Level | SPLmax | dB SPL | 107 |
| Min. impedance modulus | Zmin | Ω@Hz | 6.2@550 |
| Voice-coil inductance @ 1kHz | Le1k | mH | 0.346 |
| Voice-coil inductance @ 10kHz | Le10k | mH | 0.212 |
| BL product | BL | N/A | 8.0 |
| Moving mass | Mms | kg | 0.011 |

Thiele-Small parameters

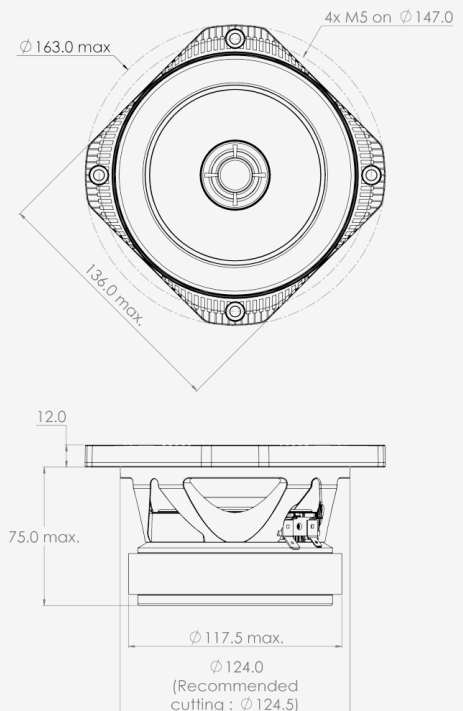
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|----------------------------|----------------------|----------------------------------|-------------------|
| Resonance frequency | Fs | Hz | 67 (±10) |
| DC Resistance | Re | Ω | 5.7 (±0.6) |
| Mechanical quality factor | Qms | 1 | 3.75 |
| Electrical quality factor | Qes | 1 | 0.40 |
| Total quality factor | Qts | 1 | 0.36 |
| Suspension compliance | Cms | 10 ⁻⁶ .m/N | 530 |
| Effective piston area | Sd | m ² | 0.0092 |
| Equivalent Cas air load | Vas | m ³ | 0.0062 |
| Max linear excursion | Xmax | mm | ± 6.5 |
| Linear displacement volume | Vd | 10 ⁻³ .m ³ | 0.0595 |
| Reference efficiency | H | % | 0.45 |
| Unity load volume | Vas.Qts ² | 10 ⁻³ .m ³ | 0.8 |

Absolute maximum ratings

| | | | |
|-------------------------------|------|----|-------------------|
| Short term max. input voltage | Vmax | V | 60 |
| Max.excursion before damage | Xdam | mm | ± 12 |
| Ambient operating temperature | Ta | °C | -10 to +50 |
| Storage temperature | | °C | -20 to +70 |
| Environmental withstanding | | | Tropical |

Coaxially mounted HF Unit

| | | | |
|-----------------------------------|---|--------|---------------------|
| HF Rated impedance | Z | W | 4 |
| HF Half space sensitivity (1W@1m) | - | dB SPL | 97 |
| HF Usable freq. range | - | Hz | 2000 - 16000 |
| HF Power handling capacity (AES) | - | W | 30 |



Application information

| | | |
|------------------------------------------|----------------------------------|----------------------------------|
| Air volume occupied by the driver | 10 ⁻³ .m ³ | 0.18 |
| Speaker net mass | kg | 2.08 |
| Baffle cut-out diameter (front mounting) | mm | 124.5 |
| Bolt number & Metric diameter | - | 4x M5 |
| Bolt circle diameter | mm | 147.0 |
| Max overall dimension (on ears) | mm | 163.0 |
| Max overall dimension (out of ears) | mm | 136.0 |
| Flange height | mm | 12.5 |
| Max magnet diameter | mm | - |
| Max depth (front mounting) | mm | 76.0 |
| Recommended reflex box | Lts / Hz | 8L / 60Hz |
| Electrical connection | - | 6.35x0.8 + 4.8x0.5 FASTON |