

5550MNdS

| Nominal Diameter | 38 cm / 15 " |
|-------------------------|--------------|
| Rated Impedance | 8 |
| Sensitivity | 96 dB SPL |
| Power Handling Capacity | 500 W AES |
| SPL max (continuous) | 120 dB SPL |
| Usable frequency range | 40 - 1500 Hz |
| Speaker net mass | 5.1 kg |

Architecture highlights :

- Ultra light injection molded Magnesium basket
- Neodymium magnet system with symmetric BL(x) and Le(x) characteristics
- Natural convection Intercooling system for noiseless sound reproduction
- Heavy duty long excursion suspension with linear behavior for large signal
- Coated diaphragm

Motor architecture

| Magnet material | - | Nd |
|---------------------|----|----|
| Voice coil diameter | mm | 77 |
| Voice coil length | mm | 28 |
| Air gap height | mm | 12 |

Typical characteristics

| Rated impedance | Z | Ω | 8 |
|--------------------------------|--------------------|--------|-----------|
| Half space sensitivity (1W@1m) | - | dB SPL | 96.0 |
| Usable freq. range | - | Hz | 40 - 1500 |
| Power handling capacity (AES) | - | W | 500 |
| Max Sound Pressure Level | SPL _{max} | dB SPL | 120 |
| Min. impedance modulus | Z _{min} | Ω@Hz | 6.6@200 |
| Voice-coil inductance @ 1kHz | Le _{1k} | mH | 1.784 |
| Voice-coil inductance @ 10kHz | Le _{10k} | mH | 0.663 |
| BL product | BL | N/A | 23.5 |
| Moving mass | Mms | kg | 0.130 |
| | | | |

Thiele-Small parameters

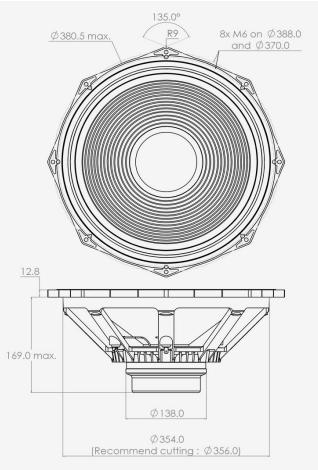
| Resonance frequency | Fs | Hz | 42 (±6) |
|----------------------------|----------------------|----------------------------------|------------|
| DC Resistance | Re | Ω | 5.3 (±0.5) |
| Mechanical quality factor | Qms | 1 | 5.28 |
| Electrical quality factor | Qes | 1 | 0.33 |
| Total quality factor | Qts | 1 | 0.31 |
| Suspension compliance | Cms | 10 ⁻⁶ .m/N | 110 |
| Effective piston area | Sd | m² | 0.0871 |
| Equivalent Cas air load | Vas | m ³ | 0.1184 |
| Max linear excursion | Xmax | mm | ± 11.0 |
| Linear displacement volume | Vd | 10 ⁻³ .m ³ | 0.9580 |
| Reference efficiency | η_0 | % | 2.6 |
| Unity load volume | Vas.Qts ² | 10 ⁻³ .m ³ | 11.4 |

Absolute maximum ratings

| Short term max. input voltage | Vmax | V | 120 |
|-------------------------------|------|----|------------|
| Max.excursion before damage | Xdam | mm | ± 20.0 |
| Ambient operating temperature | Та | °C | -10 to +50 |
| Storage temperature | | °C | -20 to +70 |
| Environmental withstanding | | | Tropical |

15 inches bass driver





Mounting information

| Air volume occupied by the driver | 10⁻³.m³ | 3.90 |
|------------------------------------------|----------------|-------------|
| Speaker net mass | kg | 5.1 |
| Baffle cut-out diameter (front mounting) | mm | 355.0 |
| Bolt number & Metric diameter | - | 8x M6 |
| Bolt circle diameter | mm | 370 and 388 |
| Max overall dimension (on ears) | mm | 406.5 |
| Max overall dimension (out of ears) | mm | 380.5 |
| Flange height | mm | 13.0 |
| Max magnet diameter | mm | 138.0 |
| Max depth (front mounting) | mm | 169.0 |
| Recommended reflex box | Lts / Hz | 100L / 40Hz |
| Electrical connection | 6.35x0.8 + 4.8 | x0.5 FASTON |

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15 inches bass driver

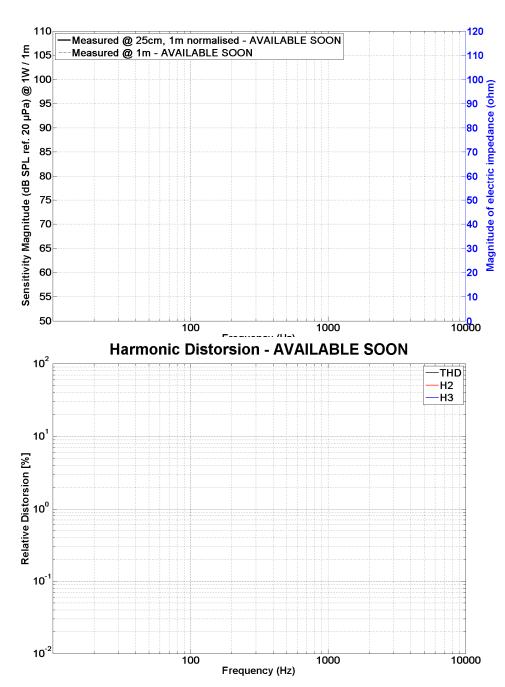


SPL curves measured on CEI standard baffle :

- . at 25 cm, normalised 1 m
- . at 1 m for reference
- . Graph amplitude = 60 dB (PHL Audio standard)

HD curve measured on CEI standard baffle :

- . at 1 meter
- . at power = $P_AES/4$
- . Graph amplitude 0.01 % to 100 % (PHL Audio standard for P_AES/4)



Non linear curves measured thanks to Klippel software and hardware, in free air

