



7221Nd

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|--------------------------------|--------------------|
| Nominal Diameter | 18" / 46cm |
| Rated Impedance | 8 Ω |
| Half space sensitivity (1W@1m) | 96.5 dB SPL |
| Power Handling Capacity | 1000 W AES |
| SPL max (continuous) | 124 dB SPL |
| Usable frequency range | 25 - 800 Hz |
| Speaker net mass | 7.4 kg |

18 inches bass driver



Architecture Highlights

- Natural convection Intercooling system for noiseless sound reproduction
- Neodymium magnet system with symmetric BL(x) and Le(x) characteristics
- Both sides coated curvilinear cone (Tropical withstanding)
- Heavy duty long excursion suspension with linear behavior for large signal

Motor architecture

| | | |
|---------------------|----|------------|
| Magnet material | - | Nd |
| Voice coil diameter | mm | 101 |
| Voice coil length | mm | 25 |
| Air gap height | mm | 10 |

Typical characteristics

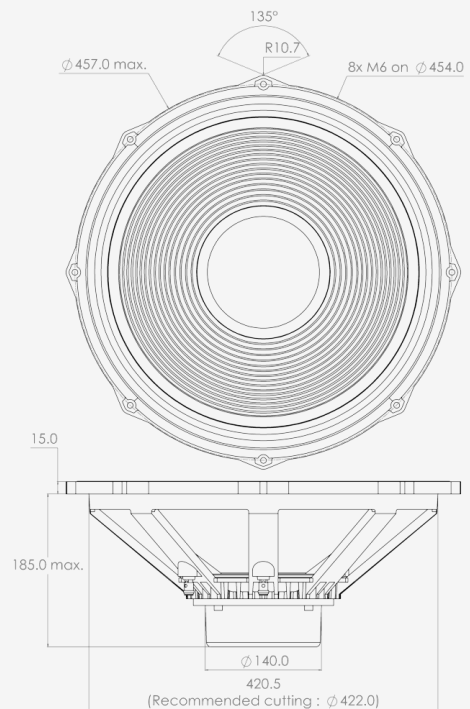
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|--------------------------------|--------|--------|-----------------|
| Rated impedance | Z | Ω | 8 |
| Half space sensitivity (1W@1m) | - | dB SPL | 96.5 |
| Usable freq. range | - | HZ | 25 - 800 |
| Power handling capacity (AES) | - | W | 1000 |
| Max Sound Pressure Level | SPLmax | dB SPL | 124 |
| Min. impedance modulus | Zmin | Ω@Hz | 6.6@190 |
| Voice-coil inductance @ 1kHz | Le1k | mH | 1.686 |
| Voice-coil inductance @ 10kHz | Le10k | mH | 0.729 |
| BL product | BL | N/A | 28.0 |
| Moving mass | Mms | kg | 0.217 |

Thiele-Small parameters

| | | | |
|----------------------------|----------------------|----------------------------------|-------------------|
| Resonance frequency | Fs | Hz | 34 (±5) |
| DC Resistance | Re | Ω | 5.2 (±0.5) |
| Mechanical quality factor | Qms | 1 | 5.79 |
| Electrical quality factor | Qes | 1 | 0.31 |
| Total quality factor | Qts | 1 | 0.29 |
| Suspension compliance | Cms | 10 ⁻⁶ .m/N | 100 |
| Effective piston area | Sd | m ² | 0.1250 |
| Equivalent Cas air load | Vas | m ³ | 0.2210 |
| Max linear excursion | Xmax | mm | ± 10.0 |
| Linear displacement volume | Vd | 10 ⁻³ .m ³ | 1.2504 |
| Reference efficiency | H | % | 2.7 |
| Unity load volume | Vas.Qts ² | 10 ⁻³ .m ³ | 18.8 |

Absolute maximum ratings

| | | | |
|-------------------------------|------|----|-------------------|
| Short term max. input voltage | Vmax | V | 180 |
| Max.excursion before damage | Xdam | mm | ± 21 |
| Ambient operating temperature | Ta | °C | -10 to +50 |
| Storage temperature | | °C | -20 to +70 |
| Environmental withstanding | | | Tropical |



Application information

| | | |
|--|----------------------------------|---------------------------|
| Air volume occupied by the driver | 10 ⁻³ .m ³ | 6.2 |
| Speaker net mass | kg | 7.4 |
| Baffle cut-out diameter (front mounting) | mm | 422 |
| Bolt number & Metric diameter | - | 8x M6 |
| Bolt circle diameter | mm | 454 |
| Max overall dimension (on ears) | mm | 476 |
| Max overall dimension (out of ears) | mm | 457 |
| Flange height | mm | 15 |
| Max magnet diameter | mm | 140 |
| Max depth (front mounting) | mm | 185 |
| Recommended reflex box | Lts / Hz | 200L / 33Hz |
| Electrical connection | - | Ø4 mm Push buttons |