2218-Neo 8 18” LF driver

- **Design for very high output live sound applications with superior bass And lower midrange performance**
- **Optimized for high sensitivity applications with extended LF and excellent high resolution performance up to 300Hz**
- **1600 W continuous program power**
- **edge-wound ribbon aluminum wire voice coil on fiberglass former**
- **composite Kevlar reinforced cone with extra durable waterproof coating**
- **very stable moving system, optimized for vented, horn loaded as well as closed box (with LF boost and excursion management) systems.**
- **High grade Neodymium magnet**

SPECIFICATIONS

Nominal diameter	18”/460 mm
Rated impedance	8 Ω
Power handling [1]	800 W
Continuous program power [2]	1600 W
Sensitivity[3]	99 dB
Effective Frequency range[4]	25 Hz – 2 kHz
Recommended max. XO frequency	500 Hz
Minimum impedance	6.3 Ω
Cone material	Paper/Kevlar fiber composite
Voice coil diameter	101.6 mm (4”)
Voice coil winding	edge wound ribbon
Voice coil wire	Aluminum
Voice coil former	Fiberglass
Voice coil displacement limit	20 mm
Voice coil winding height	23 mm
Magnetic gap height	10 mm
Suspension	M-roll, Poly-cotton
Magnet	Neodymium ring
Frame	Cast Aluminum
Recommended enclosure volume	150 -240L(5.3-8.5 ft³)

Thiele-Small parameters

Fs	30 Hz
Sd	1320 cm2
Re	5.4 Ω
Qms	3.2
Qes	0.25
Qts	0.23
Vas	312 dm³ (L)
Cms	0.12 mm/N
Mms	266 g
BL	33 N/A
Le	1.12 mH
Xmax[6]	9.0 mm

Mounting and mechanical parameters

Overall diameter	464 mm (18.27 in)
Bolt circle diameter	443mm (17.44 in)
Baffle cut-out diameter	429 mm (16.88 in)
Overall depth	181 mm (7.12 in)
Net weight	8 kgs (17.64 lbs.)

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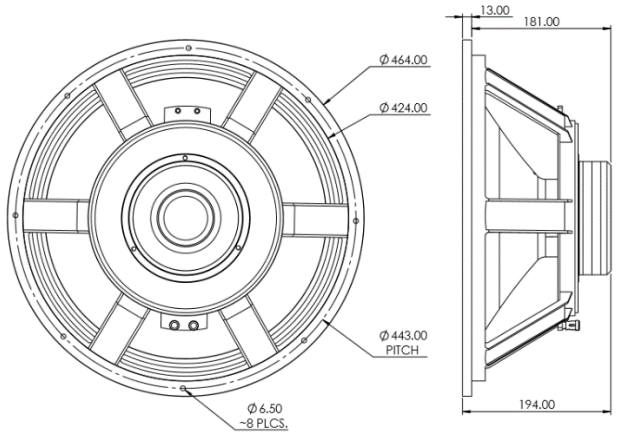
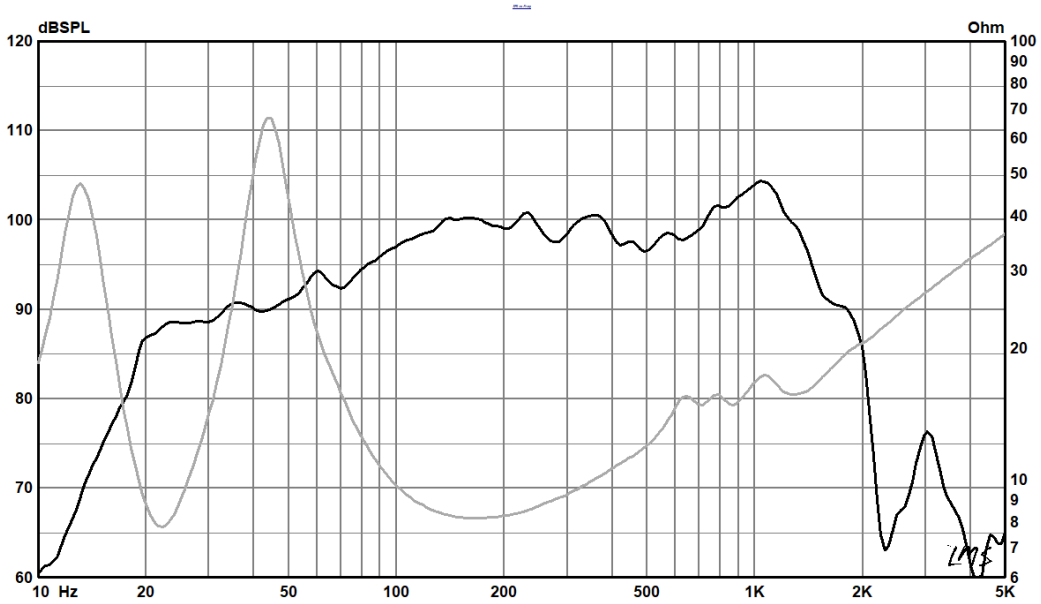


Frequency response in 240 L/Fb=23Hz vented box.
Impedance is measured with driver suspended in free space.



Specifications notes

1. As per AES2-1984 Rev.2003. Radian Audio tests power using voltage levels calculated based on rated impedance, according to AES and IEC 60268-5 standards, as better reflecting real life operating conditions. To be distinguished from power specification approach that uses minimum impedance, resulting in inflated power rating.
2. Continuous program power is defined at 3dB higher than AES power and reflects power handling capacity for typical music and cinema content reproduction.
3. Driver mounted in IEC baffle, measured at 1m, at 2.83V in simulated free field conditions as per AES 2-2012 and IEC 60268-5 (Ed.3.1 2007-09). Sensitivity is calculated based on SPL frequency response averaged in 50Hz-500Hz range.
4. Specified for the driver mounted in specified test box. Measured in accordance with IEC 60268-5 (Ed. 3.1 2007-09), defined at -10 dB below combined SPL, averaged in 50 Hz-500 Hz range.
5. Xmax is defined as Xmax= (Hvc-Hgap)/2+ Hgap/4 and based on actual BL linearity data measured for each driver by laser based analyser with 82% BL reduction limit from normalized maximum at voice coil rest position. Hvc – voice coil height, Hgap – active magnetic gap height.