

The Radian 2218 Neo 18" low frequency transducer produces extremely high levels of bass energy. This woofer is designed as an extended low frequency device, used as a subwoofer or general purpose LF transducer. It features a DUAL Neodymium magnet structure which yields more power in it's speaker class.

Integral to this design is a composite ribbed cone, reinforced with Kevlar<sup>®</sup>. The voice coil is double edge wound type for better transient response, it uses advanced adhesives to give it extra power handling.

The 2218 Neo has 1300 watts of AES power handling with a high-energy magnetic structure featuring a venturi cross section to increase ventilation efficiency, the output sensitivity is 100 dB (one watt, one meter) with a continuous sound pressure level equal to 130 dB.

The Radian 2218 Neo has an extended travel voice coil gap that produces the result of a large Xmax value of 21mm.



- ✓ LOW DISTORTION
- ✓ 4" VOICE COIL
- ✓ KEVLAR<sup>®</sup> IMPREGNATED CONE
- ✓ VENTURI-VENTED COOLING
- ✓ 1300 WATTS AES  
2600 WATTS PROGRAM POWER
- ✓ DUAL NEODYMIUM MAGNETS
- ✓ CAST ALUMINUM FRAME
- ✓ HIGH SENSITIVITY

# 2218 Neo



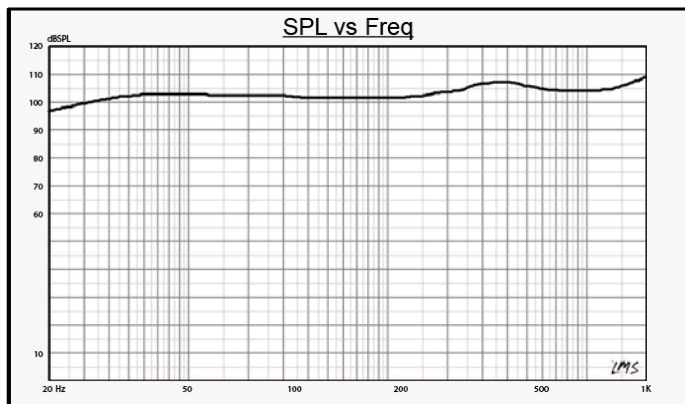
## 18" DUAL MAGNET EXTENDED LOW FREQUENCY LOUDSPEAKER

### SPECIFICATIONS

FREQUENCY RESPONSE	24 Hz – 2000 Hz
MAXIMUM POWER HANDLING *	1300 watts AES 2600 watts continuous program
SENSITIVITY **	100 dB
RECOMMENDED CROSSOVER	90 – 900 Hz
NOMINAL IMPEDANCE	8 ohms
VOICE COIL DIAMETER	4.0" (101.6 mm)
RECOMMENDED ENCLOSURE	4.5 ft. <sup>3</sup> – 12 ft. <sup>3</sup> (170 – 340 liters)
WOOFER CONE MATERIAL	Kevlar <sup>®</sup> Reinforced Paper
VOICE COIL MATERIAL	Edgewood Aluminum
BASKET MATERIAL	Cast Aluminum
OVERALL DIAMETER	18.31" (465mm)
MOUNTING BOLT CIRCLE	17.38" (441.33mm)
CUT-OUT DIAMETER	16.88" (429mm)
OVERALL DEPTH	7.88" (200.15mm)
INPUT CONNECTORS	Pushbutton Terminals
WEIGHT	17.15 lbs. (7.8 kg)
THIELE /SMALL PARAMETERS:	
Q <sub>TS</sub>	0.257
Q <sub>MS</sub>	2.820
Q <sub>ES</sub>	0.283
V <sub>AS</sub>	6.1 -11.7 (ft. <sup>3</sup> ), 333.0 (liters)
F <sub>s</sub> (Hz)	31.4
X <sub>MAX</sub> (IN)	0.84, 21.3mm
RE (Ω)	5.4
SD (IN <sup>2</sup> )	226 (0.146M <sup>2</sup> )

\*EIA Standard RS-426A

\*\*One watt at one meter



Amplitude vs. Frequency Response of the Radian 2218 as measured in a 8.6 cubic ft. enclosure, tuned to 32 Hz on axis with a one watt (2.83 Vrms), swept sine wave input at 8 ohms.

Specifications subject to change without notice.

#### LIMITED WARRANTY

Radian Audio Engineering, Inc. products, when sold domestically, are guaranteed for a period of five (5) years from the date of original purchase against malfunctions due to defects in workmanship. If such a malfunction occurs, the product will be repaired or replaced at our option, without charge, if delivered prepaid to the factory. Product will be returned prepaid via ground transport. This warranty does not extend to damage resulting from improper installation, misuse, neglect or abuse. The warranty does not apply to external finish or appearance. The warranty does not apply to burnt voice coils. In no event shall Radian Audio Engineering, Inc. be liable for incidental or consequential damages including, without limitation, injury to persons or property or loss of use.

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