

The Radian 5312NEO coaxial loudspeaker brings the best of 2" compression driver technology together with an excellent high performance 12" low frequency transducer. The 5312NEO utilizes a 4" voice coil for the low frequency transducer and a full 3" voice coil in the compression driver.

Radian's compression drivers utilize aluminum domes with an industry pioneering Mylar<sup>®</sup> surround that greatly reduces harmonic distortion at the same time improving reliability over one-piece metal diaphragms. The compression driver mates directly to a 2" horn throat machined into the center of the LF pole piece. The horn flare is completed by the cone of the woofer, resulting in excellent polar response at mid range frequencies and beyond.

This transducer system is capable of producing extremely high SPL, 128 dB continuous. This output is achieved over a bandwidth of 46 Hz to 20 kHz with 5 dB down points with 131 dB peak output levels.

Applications for the 5312NEO include sound reinforcement main PA and monitor systems, and high ceiling convention center/ballroom installations where high SPL transducers are required.

The 5312NEO comes equipped with an ohm woofer and 8 ohm compression driver. A 16 ohm compression driver impedance is available on order.



- ✓ **2" Throat 3" Diaphragm Compression Driver**
- ✓ **Dual Neodymium Magnets**
- ✓ **12" LOW FREQUENCY SECTION WITH A 4" VOICE COIL**
- ✓ **90° CONICAL DISPERSION**
- ✓ **1400 Watts Continuous PROGRAM POWER**
- ✓ **CAST ALUMINUM FRAME**
- ✓ **HIGH SENSITIVITY**

# 5312 NEO



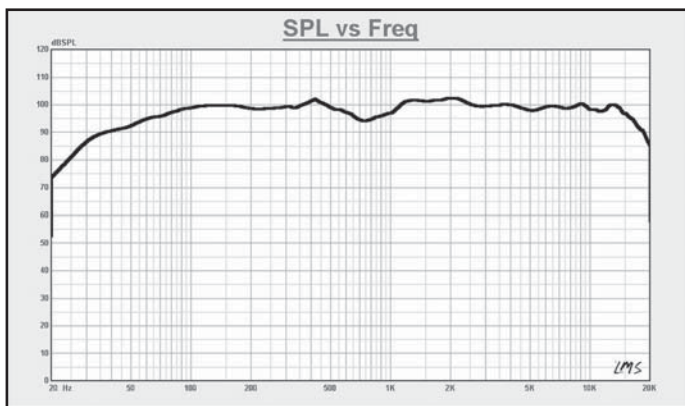
## 12" NEO - COAXIAL LOUDSPEAKER

### SPECIFICATIONS

FREQUENCY RESPONSE	46 Hz – 20 kHz
MAXIMUM POWER HANDLING *	700 watts AES/1400 watts program
SENSITIVITY **	102 dB
RECOMMENDED CROSSOVER	950 – 2000 Hz
NOMINAL IMPEDANCE	HF: 8 ohms, LF: 8 ohms
WOOFER DIAMETER	12.0" (381mm)
VOICE COIL DIAMETER (LF/HF)	4.0"/3.0" (101.6mm/76.2mm)
NOMINAL DISPERSION	90°
WOOFER CONE MATERIAL	Reinforced Paper
DIAPHRAGM MATERIAL	0.002" Aluminum
BASKET MATERIAL	Cast Aluminum
OVERALL DIAMETER	12.375" (308mm)
MOUNTING BOLT CIRCLE	11.625" (296.55mm)
CUT-OUT DIAMETER	11.125" (279.4mm)
OVERALL DEPTH	7.15" (185.42mm)
INPUT CONNECTORS :	
HF	0.25 Terminals (6.35mm)
LF	Pushbutton Terminals
WEIGHT	14.5 lbs. (6.58 kg)
THIELE /SMALL PARAMETERS :	
QTS	0.203
QMS	2.404
QES	0.222
VAS	35.480m cuM
Fs (Hz)	.51
XMAX (IN)	+/- 0.176 +/- 4.47mm
RE (Ω)	5.93
SD (IN <sup>2</sup> )	44.510m sqM

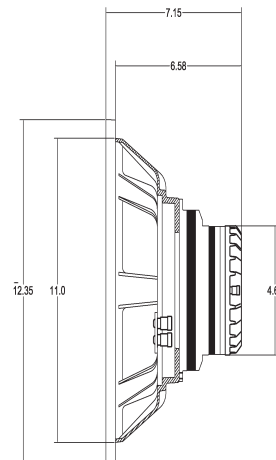
\*EIA Standard RS-426A

\*\*One watt at one meter



Amplitude vs. Frequency Response of the Radian 1312NEO as measured on axis with a one watt (2.83 Vrms), swept sine wave input at 8 ohms, using a 324/12 crossover network in a 2.3 (ft. <sup>3</sup>) vented cabinet.

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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