



PRODUCT OVERVIEW

The powerful X-Series subwoofers combine groundbreaking Alpine technologies along with modern, exaggerated design and components to give you a high-performance subwoofer that requires very little enclosure space. With 48mm of total excursion, the X-W12D4 is able to produce impressive amounts of bass while maintaining control and accuracy.

PRODUCT FEATURES

Impressive Output – A powerful, motor comprised of a premium, elongated voicecoil¹ and triple stacked ferrite magnets³ reproduce the bass you crave

Unprecedented Accuracy – The unmatched 48mm of total excursion is controlled by a dual spider², and the iconic HAMR Surround⁴

Install Friendly Design – The overbuilt motor allows a small box requirement while the locking trim ring⁵ ensure a beautiful fit and finish

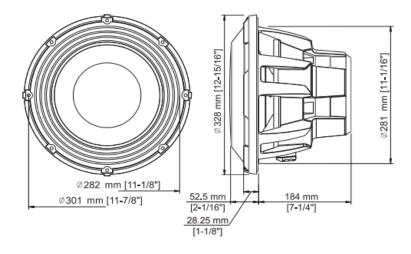




POWER RANGE: 450-900W







GENERAL SPECS

- Size: 12"
- Dimensions: 11.875" x 11.875" x 7.25"
- Frequency Response: 24Hz 200Hz
- Power Range: 450W 900W RMS
- Power Handling: 900W RMS / 2700W Peak
- Magnet Weight: 174 oz (x3)
- Voice Coil Diameter: 65.5 mm (2.6")

THIELE-SMALL PARAMETERS

 Sensitivity 	(1W/1m):	84.3 dB

4.42 mH

27 Hz

56 L

5.63

- DC Resistance (R₂): 3.6Ω + 3.6Ω
- Inductance (L_):
- Free Air Resonance (F_):
- Equivalent Stiffness:
- Mechanical Q (Q_{ms}):
- Electrical Q (Q_{es}): 0.62
- Total Q (Q_t): 0.56
- Cone Area (S_d): 472 cm²
- Linear Excursion (X_{max}): 24 mm
- Mechanical Travel (X_{mech}): 82 mm
- Displacement Volume (V_d): .12 ft³

BOX SPECS

SEALED BOX RANGE:

Net Internal Volume: 0.4 - 1.25 ft³

RECOMMENDED SEALED BOX:

External Dimensions: 14" x 14" x 12.25" Gross Internal Volume: 0.97 ft³ Net Internal Volume: 0.85 ft³ F3, Qtc: 36 Hz, 0.99

VENTED BOX RANGE:

Net Internal Volume: 1.0 - 2.0 ft³ Fb, Tuning: 30-36 Hz

RECOMMENDED VENTED BOX:

External Dimensions: 14" x 23.5" x 14" Gross Internal Volume: 1.98 ft³ Vent Area (W x H): 15.0 in² (3.75" x 4") Vent Length: 18" Vent Displacement: 0.21 ft³ Net Internal Volume (Vb): 1.65 ft³ F3, Ripple, Fb: 28 Hz, 5.7 dB, 33 Hz

RECOMMENDED ENCLOSURE RESPONSE CURVES:

