

R2-W8D2/D4

8" R-Series "R2" Subwoofer

ALPINE



PRODUCT OVERVIEW

The next generation of sound performance is here with the new R-Series subwoofers featuring a larger motor structure for more accurate and authoritative bass.

PRODUCT FEATURES

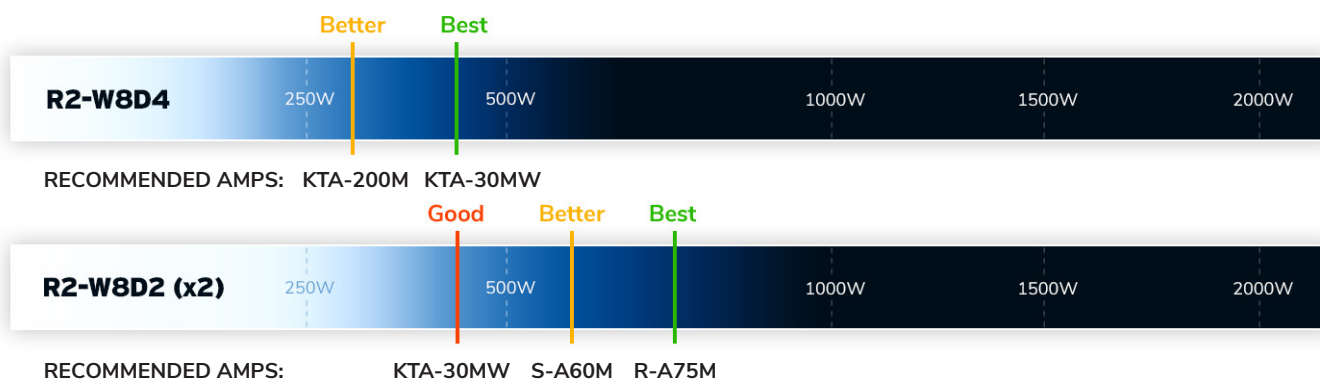
New Motor Structure – The new R-Series subwoofers now feature larger, double-stacked magnets that contribute more motor force for deeper bass and tighter bass control compared to the previous generation.

Oversized Dust Cap – The new hybrid poly ceramic composite dust cap ensures rigidity while also providing incredible internal damping (vibration absorption) to smooth out the bass response and reproduce tight bass.

Increased Accuracy – Alpine's High Amplitude Multi-Roll (HAMR) Surround Technology allows the cone to efficiently move air while staying cool resulting in incredible accuracy from the subwoofer.



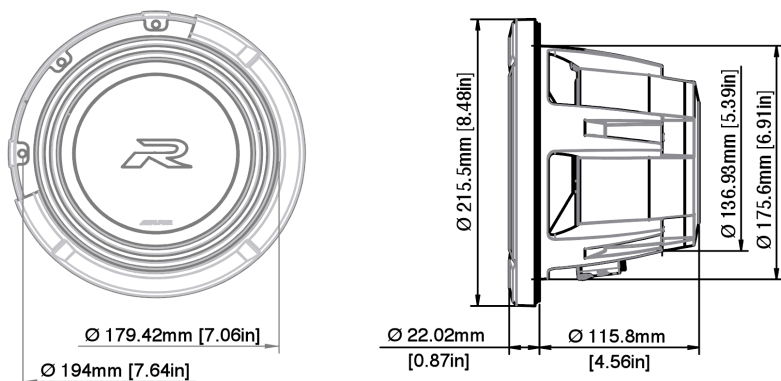
POWER RANGE: 150-350W



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GENERAL SPECS

- Size: 8"
- Dimensions: 7.64" x 7.64" x 4.56"
- Frequency Response: 30Hz - 200Hz
- Power Range: 150W - 350W RMS
- Power Handling: 350W RMS / 1000W Peak
- Magnet Weight: 56 oz
- Voice Coil Diameter: 40 mm (2.6")

R2-W12D2 - THIELE-SMALL PARAMETERS

- | | |
|-------------------------------------|-------------------------|
| • Sensitivity (1W/1m): | 83.6 dB |
| • DC Resistance (R_e): | $1.8\Omega + 1.8\Omega$ |
| • Free Air Resonance (F_s): | 42 Hz |
| • Equivalent Stiffness: | 10.1 L |
| • Mechanical Q (Q_{ms}): | 7.69 |
| • Electrical Q (Q_{es}): | 0.52 |
| • Total Q (Q_{ts}): | 0.48 |
| • Cone Area (S_d): | 201 cm ² |
| • Linear Excursion (X_{max}): | 12 mm |
| • Mechanical Travel (X_{mech}): | 52 mm |

BOX SPECS

SEALED BOX RANGE:

Net Internal Volume: 0.15 - 0.45 ft³

RECOMMENDED SEALED BOX:

External Dimensions: 13" x 13" x 5.5"

Gross Internal Volume: 0.30 ft³

Net Internal Volume: 0.25 ft³

D2 - F3, Q_{tc}: 59Hz, 0.73

D4 - F3, Q_{tc}: 59Hz, 0.72

VENTED BOX RANGE:

Net Internal Volume: 0.25 - 0.7 ft³

Fb, Tuning: 36-40Hz

RECOMMENDED VENTED BOX:

External Dimensions: 11" x 9.5" x 21"

Gross Internal Volume: 0.86 ft³

Vent Area (W x H): 8 in² (8" x 1")

Vent Length: 17.5"

Vent Displacement: 0.13 ft³

Net Internal Volume (Vb): 0.68 ft³

D2 - F3, Ripple, Fb: 33Hz, 2.5 dB, 39Hz

D4 - F3, Ripple, Fb: 32Hz, 3.2 dB, 39Hz

R2-W12D4 - THIELE-SMALL PARAMETERS

- | | |
|-------------------------------------|-------------------------|
| • Sensitivity (1W/1m): | 83.7 dB |
| • DC Resistance (R_e): | $3.6\Omega + 3.6\Omega$ |
| • Free Air Resonance (F_s): | 43 Hz |
| • Equivalent Stiffness: | 10.5 L |
| • Mechanical Q (Q_{ms}): | 7.08 |
| • Electrical Q (Q_{es}): | 0.58 |
| • Total Q (Q_{ts}): | 0.53 |
| • Cone Area (S_d): | 201 cm ² |
| • Linear Excursion (X_{max}): | 12 mm |
| • Mechanical Travel (X_{mech}): | 52 mm |