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ALPINE®

TYPE-R SUBWOOFER HAUT-PARLEUR D'EXTRÊMES GRAVES TYPE-R APPLICATION GUIDE GUIDE D' APPLICATION

SWR-1542D

15 Inch Dual Voice Coil Subwoofer (4 Ω)+(4 Ω)
Haut-parleur d'extrêmes graves à double bobine 15 po (4 Ω)+(4 Ω)

SWR-1522D

15 Inch Dual Voice Coil Subwoofer (2 Ω)+(2 Ω)
Haut-parleur d'extrêmes graves à double bobine 15 po (2 Ω)+(2 Ω)

SWR-1242D

12 Inch Dual Voice Coil Subwoofer (4 Ω)+(4 Ω)
Haut-parleur d'extrêmes graves à double bobine 12 po (4 Ω)+(4 Ω)

SWR-1222D

12 Inch Dual Voice Coil Subwoofer (2 Ω)+(2 Ω)
Haut-parleur d'extrêmes graves à double bobine 12 po (2 Ω)+(2 Ω)

SWR-1042D

10 Inch Dual Voice Coil Subwoofer (4 Ω)+(4 Ω)
Haut-parleur d'extrêmes graves à double bobine 10 po (4 Ω)+(4 Ω)

SWR-1022D

10 Inch Dual Voice Coil Subwoofer (2 Ω)+(2 Ω)
Haut-parleur d'extrêmes graves à double bobine 10 po (2 Ω)+(2 Ω)

Subwoofer Features and Specifications	
Features	
Size	
Power Handling (RMS/peak)	
Power Range (RMS)	
Frequency Response	
Diaphragm	Material
	Design
Surround	Material
	Design
Spider	Material
	Design
Voice Coil	Material
	Design
Motor Structure	Pole Geometry
	Configuration
Frame	Material
	Design
Terminals	Layout
	Design
Tinsel Leads	Design
Gasket	Design
Enclosure Information	
Mounting Depth	
Mounting Diameter - Front Mount	
Displacement - Front Mount**	
Added Volume - Reverse Mount (magnet out)**	
Recommended Enclosure Alignments	
Sealed Box Volume Range (Gross)	
Optimum Sealed Box	External Box Dimensions
	Gross Internal Volume
	Net Internal Volume**
	F _s , Q _{tc}
Vented Box Volume Range (Gross)	
Optimum Vented Box	External Box Dimensions
	Gross Internal Volume
	Vent Area (dimensions)
	Vent Length
	Vent Displacement
	Net Internal Volume (V _b)**
	F _s , ripple, F _b
Electro-Mechanical Parameters [#]	
Nominal Impedance	
Frequency Response	
Sensitivity (SPL@1W/1m)*	
D.C Coil Resistance (Re)	
Inductance (Le) 1kHz/20kHz	
Free Air Resonance (Fs)	
Equivalent Stiffness (Vas)	
Mechanical Q (Qms)	
Electrical Q (Qes)	
Total Q (Qts)	
Linear Excursion [(Hvc-Hag)/2], One-Way (Xmax)	
Magnetic Linear Excursion, One-Way (Xmag)	
Mechanical Excursion, Peak-to-Peak	
Gap Height (Hag)	
Coil Height (Hvc)	
Cone Area (Sd)	
Voice Coil Diameter	
Magnet Weight	

Note: All specifications are subject to change without notice

All T/S parameters measured/calculated with voice coils connected in series, after break-in.

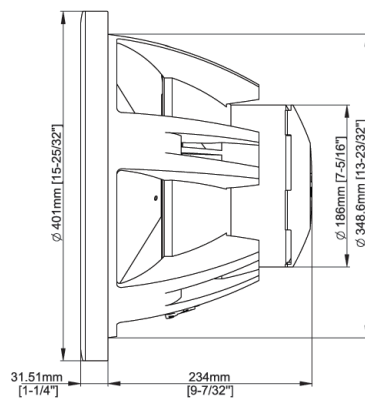
* This commonly misunderstood specification should not be used as a reference for subwoofer output capability.

** Based upon 3/4" (19mm) baffle thickness, with opening cut approximately to gasket inner diameter

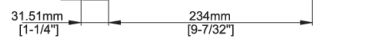
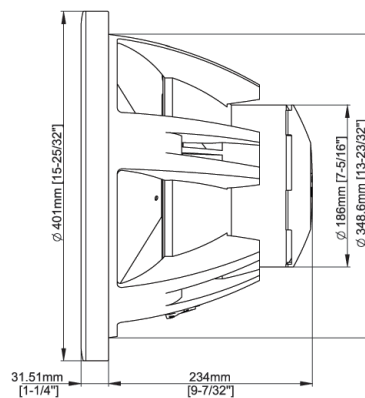
Type-R					
SWR-1022D	SWR-1042D	SWR-1222D	SWR-1242D	SWR-1522D	SWR-1542D
10"	10"	12"	12"	15"	15"
500W/1500W	500W/1500W	500W/1500W	500W/1500W	750W/2000W	750W/2000W
200W-500W	200W-500W	200W-500W	200W-500W	400W-750W	400W-750W
24Hz-600kHz	26Hz-600Hz	23Hz-500Hz	25Hz-500Hz	18Hz-400Hz	20Hz-400Hz
Kevlar Reinforced Pulp Fiber					
2-piece Structural Parabolic					
Injection Molded Santoprene®					
High Amplitude Multi-Roll					
Nomex®					
Mirrored Progressive					
180°C High Temp Wire on Spiral Cut Aluminum Former					
4-Layer Dual Voice Coil					
Compound Radius Curve (Patent #6,639,993)					
Radial Vented VC Heat Sink and Airflow Management System (Pat. Pending)					
Cast Aluminum					
Perimeter Vented Heat Transfer (Pat. Pending)					
One Side					
Heavy Duty 8ga. Push with Housing, Banana Plug Jumper					
Reinforced Layer Spider Integration (Patent #6,810,988)					
Concealed Mount Gasket System					
172 mm (6.8")	172 mm (6.8")	195 mm (7.7")	195 mm (7.7")	234 mm (9.2")	234 mm (9.2")
231 mm (9.1")	231 mm (9.1")	275 mm (10.9")	275 mm (10.9")	349 mm (13.8")	349 mm (13.8")
0.050 ft ³	0.050 ft ³	0.071 ft ³	0.071 ft ³	0.123 ft ³	0.123 ft ³
0.055 ft ³	0.055 ft ³	0.085 ft ³	0.085 ft ³	0.160 ft ³	0.160 ft ³
Sealed, Vented, Bandpass					
0.5-0.8 ft ³	0.5-0.8 ft ³	0.7-1.0 ft ³	0.7-1.0 ft ³	1.3-2.5 ft ³	1.3-2.5 ft ³
11.5" x 11.5" x 12.75"	11.5" x 11.5" x 12.75"	13" x 13" x 12.5"	13" x 13" x 12.5"	16.5" x 16.5" x 15"	16.5" x 16.5" x 15"
0.65 ft ³	0.65 ft ³	0.85 ft ³	0.85 ft ³	1.75 ft ³	1.75 ft ³
0.6 ft ³	0.6 ft ³	0.78 ft ³	0.78 ft ³	1.625 ft ³	1.625 ft ³
49Hz, 0.65	48Hz, 0.69	51Hz, 0.67	49Hz, 0.7	43Hz, 0.64	44Hz, 0.65
0.6-1.25 ft ³	0.6-1.25 ft ³	0.75-1.75 ft ³	0.75-1.75 ft ³	1.5-3.0 ft ³	1.5-3.0 ft ³
12.5" x 14.5" x 17.25"	12.5" x 14.5" x 17.25"	18" x 13.5" x 16.5"	18" x 13.5" x 16.5"	19.5" x 16.5" x 20"	19.5" x 16.5" x 20"
1.3 ft ³	1.3 ft ³	1.7 ft ³	1.7 ft ³	2.9 ft ³	2.9 ft ³
11 in ² (11" x 1")	11 in ² (11" x 1")	15 in ² (12" x 1.25")	15 in ² (12" x 1.25")	22.5 in ² (15" x 1.5")	22.5 in ² (15" x 1.5")
22 in.	22 in.	22.75 in.	22.75 in.	27 in.	27 in.
0.237 ft ³	0.237 ft ³	0.305 ft ³	0.305 ft ³	0.51 ft ³	0.51 ft ³
1 ft ³	1 ft ³	1.3 ft ³	1.3 ft ³	2.25 ft ³	2.25 ft ³
30 Hz, 2.8 dB, 35 Hz	30 Hz, 3.5 dB, 36 Hz	33 Hz, 2 dB, 36 Hz	33 Hz, 2.5 dB, 36 Hz	27 Hz, 2.7 dB, 30 Hz	29 Hz, 2.4 dB, 30 Hz
2Ω+2Ω	4Ω+4Ω	2Ω+2Ω	4Ω+4Ω	2Ω+2Ω	4Ω+4Ω
24 - 600Hz	26 - 600Hz	23 - 500Hz	25 - 500Hz	18 - 400Hz	20 - 400Hz
83 dB	83 dB	85 dB	85 dB	87 dB	87 dB
1.85Ω+1.85Ω	3.7Ω+3.7Ω	1.85Ω+1.85Ω	3.7Ω+3.7Ω	1.6Ω+1.6Ω	3.45Ω+3.45Ω
2.48mH / 1.06mH	3.94mH / 1.63mH	2.35mH / 1.01mH	3.71mH / 1.67mH	2.53mH / 0.99mH	4.17mH / 1.64mH
31Hz	33Hz	28Hz	29Hz	22Hz	23Hz
20L (0.71 ft ³)	20L (0.71 ft ³)	45L (1.6 ft ³)	45L (1.6 ft ³)	100L (3.53 ft ³)	100L (3.53 ft ³)
8.67	7.92	8.25	7.89	8.57	7.71
0.53	0.57	0.44	0.50	0.43	0.48
0.50	0.53	0.42	0.47	0.41	0.45
18.1 mm	18.2 mm	18.1 mm	18.2 mm	20.7mm	20.5 mm
19.6 mm	19.6 mm	19.4 mm	19.4 mm	21.4 mm	21.5 mm
60 mm	60 mm	65 mm	65 mm	70 mm	70 mm
10 mm	10 mm	10 mm	10 mm	10 mm	10 mm
46.1 mm	46.4 mm	46.1 mm	46.4 mm	51.3 mm	51.0 mm
332 cm ²	332cm ²	480 cm ²	480 cm ²	775 cm ²	775 cm ²
50 mm (2")	50 mm (2")	50 mm (2")	50 mm (2")	65 mm (2.6")	65 mm (2.6")
85 oz	85 oz	109 oz	109 oz	155 oz	155 oz



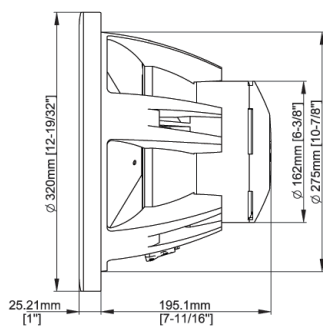
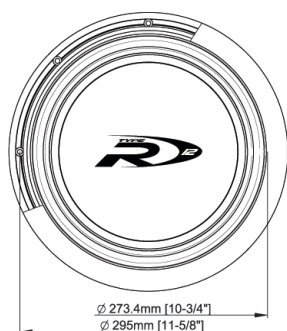
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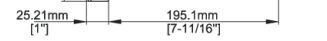
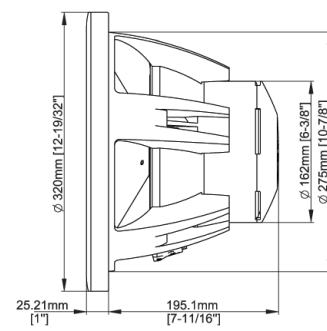
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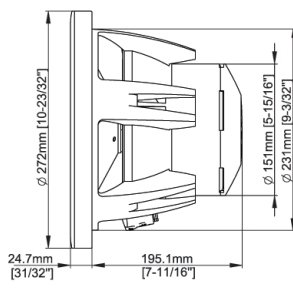
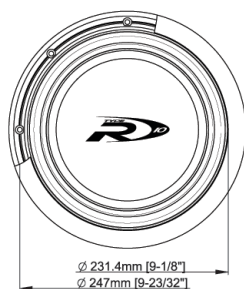
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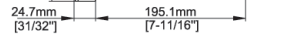
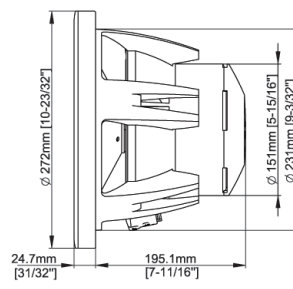
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