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**ALPINE®**

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

## **SWR-1243D**

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

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## **SWR-1223D**

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

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## **SWR-1043D**

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

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## **SWR-1023D**

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

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## **SWR-843D**

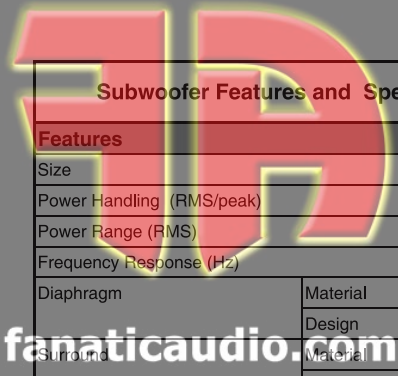
8 Inch Dual Voice Coil Subwoofer (4Ω)+(4Ω)  
Haut-parleur d'extrêmes graves à double bobine 8 po (4Ω)+(4Ω)

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## **SWR-823D**

8 Inch Dual Voice Coil Subwoofer (2Ω)+(2Ω)  
Haut-parleur d'extrêmes graves à double bobine 8 po (2Ω)+(2Ω)

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Subwoofer Features and Specifications	
<b>Features</b>	
Size	
Power Handling (RMS/peak)	
Power Range (RMS)	
Frequency Response (Hz)	
Diaphragm	Material
	Design
Surround	Material
	Design
Spider	Material
	Design
Voice Coil	Material
	Design
Motor Structure	Pole Geometry
	Configuration
Magnet	Material
	Configuration
Frame	Material
	Design
Terminals	Layout
	Design
Tinsel Leads	Design
Gasket	Design
<b>Enclosure Information</b>	
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 <sub>3</sub> , Q <sub>tc</sub>
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 <sub>b</sub> )***
F <sub>3</sub> , ripple, F <sub>b</sub>	
<b>Electro-Mechanical Parameters #</b>	
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)	
Xmax <sub>10</sub> (One-Way Xmax @ 10% Distortion)	
Mechanical Excursion, Peak-to-Peak	
Gap Height (Hag)	
Coil Height (Hvc)	
Cone Area (Sd)	
Voice Coil Diameter	
Magnet Weight	

Type-R					
SWR-823D	SWR-843D	SWR-1023D	SWR-1043D	SWR-1223D	SWR-1243D
8"	8"	10"	10"	12"	12"
350W/1000W	350W/1000W	600W/1800W	600W/1800W	600W/1800W	600W/1800W
150W-350W	150W-350W	300W-600W	300W-600W	300W-600W	300W-600W
28Hz-200Hz	28Hz-200Hz	26Hz-200Hz	26Hz-200Hz	24Hz-200Hz	24Hz-200Hz
Kevlar-Reinforced Pulp Fiber					
2-Piece Structural Parabolic					
Injection Molded Santoprene®					
High Amplitude Multi-Roll (Patent Pending)					
Nomex®					
Progressive					
180°C High Temp Wire on Spiral Cut Aluminum Former					
4-Layer Dual Voice Coil					
Compound Radius Curve (US Patent #6,639,993)					
Integrated Shorting Sleeve with Radial Vented VC Heat Transfer (US Patents #7,634,101; #7,272,238; other Patents Pending)					
High-Power Strontium Ferrite					
6-Piece (8") / 10-Piece (10"/12") Radially Segmented, Double Stacked					
Cast Aluminum					
Single-Piece Casting with Airflow Management System (US Patent #6,678,837; #7,684,585; other Patents Pending)					
One Sided					
Heavy Duty 8ga. Push with Housing, Banana Sockets for VC Configuration Jumpers					
Reinforced Layer Spider Integration (US Patent #6,810,988)					
Concealed Mount Gasket System and Integrated Grill Ready (US Patent #7,760,900)					
115 mm (4.525")	115 mm (4.525")	149 mm (5.875")	149 mm (5.875")	162 mm (6.375")	162 mm (6.375")
176 mm (6.93")	176 mm (6.93")	231 mm (9.1")	231 mm (9.1")	275 mm (10.9")	275 mm (10.9")
0.050 ft³	0.050 ft³	0.080 ft³	0.080 ft³	0.100 ft³	0.100 ft³
0.035 ft³	0.035 ft³	0.055 ft³	0.055 ft³	0.090 ft³	0.090 ft³
Sealed, Vented, Bandpass, Infinite Baffle			Sealed, Vented, Bandpass		
0.15-0.50 ft³	0.15-0.50 ft³	0.5-1.0 ft³	0.5-1.0 ft³	0.65-1.25 ft³	0.65-1.25 ft³
13" x 13" x 5.5"	13" x 13" x 5.5"	12.5" x 12.5" x 10"	12.5" x 12.5" x 10"	14.5" x 14.5" x 10.5"	14.5" x 14.5" x 10.5"
0.30 ft³	0.30 ft³	0.60 ft³	0.60 ft³	0.90 ft³	0.90 ft³
0.25 ft³	0.25 ft³	0.50 ft³	0.50 ft³	0.75 ft³	0.75 ft³
53 Hz, 0.80	53 Hz, 0.80	43 Hz, 0.90	46 Hz, 0.90	44 Hz, 0.90	43 Hz, 0.90
0.25-0.60 ft³	0.25-0.60 ft³	0.8-1.5 ft³	0.8-1.5 ft³	1.0-2.0 ft³	1.0-2.0 ft³
11" x 8.5" x 20"	11" x 8.5" x 20"	12.5" x 12.5" x 20.5"	12.5" x 12.5" x 20.5"	13.5" x 13.5" x 24"	13.5" x 13.5" x 24"
0.70 ft³	0.70 ft³	1.4 ft³	1.4 ft³	1.9 ft³	1.9 ft³
5.25 in² (7" x 0.75")	5.25 in² (7" x 0.75")	11 in² (11" x 1")	11 in² (11" x 1")	15 in² (12" x 1.25")	15 in² (12" x 1.25")
15.5"	15.5"	18.5"	18.5"	22"	22"
0.10 ft³	0.10 ft³	0.24 ft³	0.24 ft³	0.29 ft³	0.29 ft³
0.55 ft³	0.55 ft³	1.1 ft³	1.1 ft³	1.5 ft³	1.5 ft³
31Hz, 2dB, 36Hz	31Hz, 2dB, 36Hz	26Hz, 4.2dB, 35Hz	28Hz, 4.5dB, 35Hz	27Hz, 4.2dB, 33Hz	27Hz, 3.9dB, 33Hz
2Ω+2Ω	4Ω+4Ω	2Ω+2Ω	4Ω+4Ω	2Ω+2Ω	4Ω+4Ω
28 - 200Hz	28 - 200Hz	26 - 200Hz	26 - 200Hz	24 - 200Hz	24 - 200Hz
83.5dB	83.5dB	83dB	83dB	85dB	85dB
1.85Ω+1.85Ω	3.7Ω+3.7Ω	1.85Ω+1.85Ω	3.7Ω+3.7Ω	1.85Ω+1.85Ω	3.7Ω+3.7Ω
0.87mH/0.30mH	1.23mH/0.35mH	2.39mH/1.02mH	3.79mH/1.93mH	2.41mH/1.02mH	3.85mH/1.92mH
38Hz	40Hz	29Hz	31Hz	28Hz	31Hz
12L (0.42 ft³)	12L (0.42 ft³)	26L (0.92 ft³)	21L (0.75 ft³)	43L (1.5 ft³)	38L (1.5 ft³)
7.8	7.5	8.7	7.9	8.5	7.9
0.55	0.60	0.53	0.57	0.50	0.57
0.50	0.55	0.50	0.53	0.47	0.53
14 mm	14 mm	20 mm	20 mm	20 mm	20 mm
52 mm	52 mm	70mm	70mm	72mm	72mm
10 mm	10 mm	10 mm	10 mm	10 mm	10 mm
29 mm	29 mm	44mm	44mm	44mm	44mm
201 cm²	201 cm²	332 cm²	332 cm²	480 cm²	480 cm²
40 mm (1.6")	40 mm (1.6")	65 mm (2.6")	65 mm (2.6")	65 mm (2.6")	65 mm (2.6")
52 oz	52 oz	128 oz	128 oz	144 oz	144 oz

**Note: All specifications are subject to change without notice**

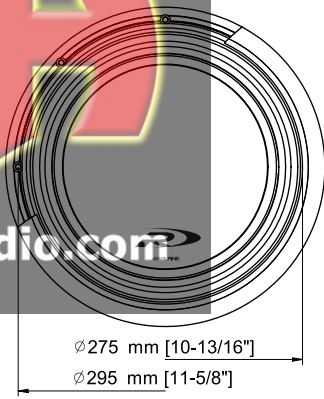
# All T/S parameters measured/calculated with voice coils connected in series, after break-in.

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

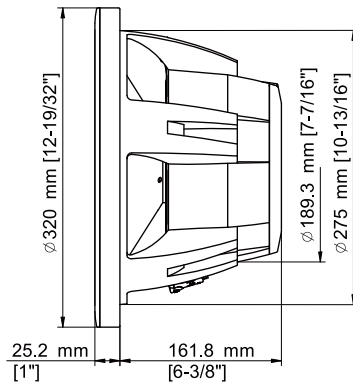
\*\* Based upon 3/4" (19mm) baffle thickness, with opening cut approximately to gasket inner diameter



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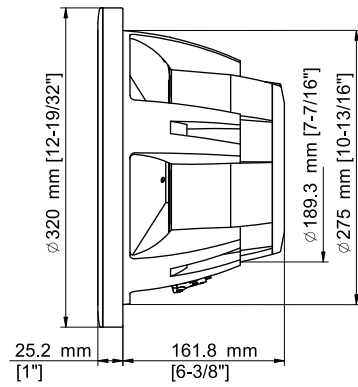


Ø 275 mm [10-13/16"]  
Ø 295 mm [11-5/8"]



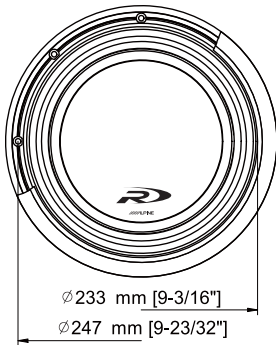
25.2 mm [1"]  
161.8 mm [6-3/8"]

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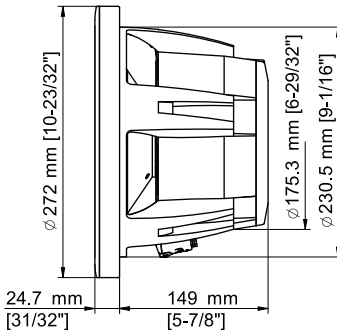


25.2 mm [1"]  
161.8 mm [6-3/8"]

SWR-1223D

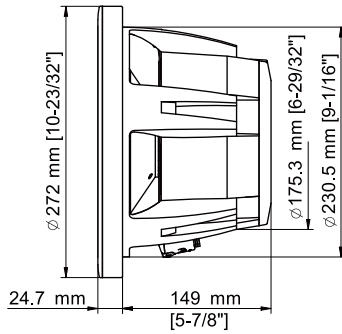


Ø 233 mm [9-3/16"]  
Ø 247 mm [9-23/32"]



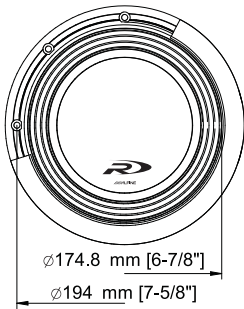
24.7 mm [31/32"]  
149 mm [5-7/8"]

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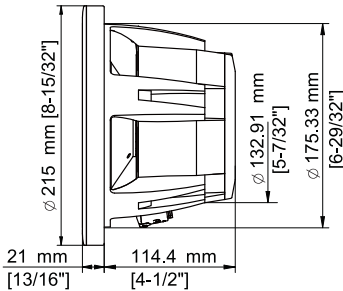


24.7 mm [31/32"]  
149 mm [5-7/8"]

SWR-1023D

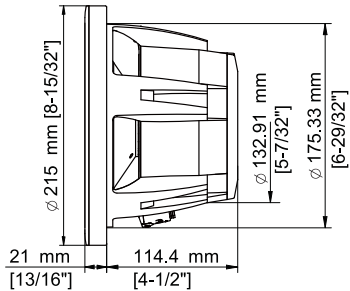


Ø 174.8 mm [6-7/8"]  
Ø 194 mm [7-5/8"]



21 mm [13/16"]  
114.4 mm [4-1/2"]

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21 mm [13/16"]  
114.4 mm [4-1/2"]

SWR-823D



ALPINE ELECTRONICS, INC.  
1-7 Yukigaya-otsukamachi,  
Ota-ku, Tokyo 145-0067, Japan  
Tel: (03) 5499-4515

ALPINE ELECTRONICS OF AMERICA, INC.  
19145 Gramercy Place, Torrance,  
California 90501, U.S.A.  
Tel: 1-800-ALPINE-1 (1-800-257-4631)

ALPINE ELECTRONICS OF CANADA, INC.  
777 Supertest Road, Toronto,  
Ontario M3J 2M9, Canada  
Tel: (416) 736-6211

ALPINE ELECTRONICS OF AUSTRALIA PTY. LTD.  
161-165 Princes Highway, Hallam  
Victoria 3803, Australia  
Tel: (03) 8787-1200

ALPINE ELECTRONICS DE ESPAÑA, S.A.  
Portal de Gamarra 36, Pabellón 32  
01013 Vitoria (Álava). APDO. 133, Spain  
Tel: (945) 283-588

ALPINE ELECTRONICS GmbH  
Wilhelm-Wagenfele-Straße 1-3  
80807 München, Germany  
Tel: (089) 324-2640

ALPINE ELECTRONICS (Benelux) GmbH  
Leuvensesteenweg 510-B6  
1930 Zaventem, Belgium  
Tel: 02-7251315

ALPINE ELECTRONICS OF U.K., LTD.  
Alpine House Earplace Business Park,  
Fletchamstead Highway, Coventry CV4, 9TW  
United Kingdom  
Tel: (2476) 719-500

ALPINE ELECTRONICS FRANCE S.A.R.L.  
98, Rue de la Belle Etoile, Z.I. Paris Nord,  
B.P. 50016, 95945, Roissy Charles de Gaulle  
Cédex, France  
Tel: (01) 4863-8989

ALPINE ITALIA S.p.A.  
Viale C. Colombo 8,  
20090 Trezzano Sul Naviglio (MI), Italy  
Tel: (02) 484-781

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