



AVI SOUND INTERNATIONAL LTD.
 UNIT 170, 11120 BRIDGEPORT ROAD
 RICHMOND, BC, CANADA V6X 1T2
 TEL: (604)-276-0099 FAX: (604)-276-0409
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MODEL **AVI SL-300, 300 mm (12") SUBWOOFER DRIVER**

APPLICATIONS This is a subwoofer driver for high performance sound systems.
 Suggested operating range is 27 to 400 Hz.

PERFORMANCE 21 to 1080 Hz at -10 dB points, in optimum enclosure.
 27 to 400 Hz at -3 dB points, in optimum enclosure.
 500 watts music program material.
 250 watts AES pink noise rating.
 128 dB typical, in vehicle, with rated power.
 102 dB typical, at 1 watt, in vehicle.
 93 dB average, at 1 watt and 1 meter, in half space.
 4 ohm nominal, 3.2 ohm minimum.

FEATURES Cast aluminum frame with cavity vents, black finish.
 Extended and vented pole piece with integrated bottom plate.
 Both top and bottom plates with CNC and black absorbing finish.
 Yellow HX type woven fiberglass cone with linearity damped composite rubber edge.
 Heavy duty gold plated brass terminals.
 1995 g (70.3 oz) magnet.
 65 mm (2.5") copper ribbon voice coil, OFC edge wound.

PHYSICAL 312 mm (12.3") overall diameter.
 138 mm (5.4") overall depth.
 272 mm (10.7") cut out hole diameter.
 125 mm (4.9") mounting depth.
 6.5 Kg (14.3 lbs) weight.

T/S DATA	Znom	4 Ω	Revc	3.2 Ω	Fo	30.9 Hz
	Sd	0.053 M ² (82.2 in ²)	Le	0.80 mH	SPL	93 dB
	Xmax	4.1 mm (0.16 in)	Qms	13.6	BL	11.12 TM
	Vas	140 L (4.95 ft ³)	Qes	0.38	Pnom	250 W
	Cms	351 μm/N	Qts	0.37	Pmax	500 W



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AVI SL-300 APPLICATION NOTES

	NET VOLUME	TOTAL VOLUME	PORTS	DIA	LENGTH	FILL	Fb (Hz)	F ₃ (Hz)	F ₁₀ (Hz)	NOTES
S CLOSED		55 L 1.9 ft³				50%		60	32	Good performance in a small closed enclosure.
L CLOSED		105 L 3.7 ft³				50%		67	30	Not recommended – Vented enclosures have more useful output.
INF-BAFFLE		> 700 L > 25 ft³						75	28	Free air is not recommended because of some risk of suspension damage at high power.
MINI VENTED		55 L 1.9 ft³	1	100 mm 4"	310 mm 12"	25%	34	45	30	
MIDI VENTED		69 L 2.4 ft³	2	75 mm 3"	300 mm 11.5"	20%	34	37	27	
MAXI VENTED		105 L 3.7 ft³	2	100 mm 4"	290 mm 11.5"	15%	34	35	26	
ISO-VENT		55 L 1.9 ft³	1	100 mm 4"	310 mm 12"	25%	34	35	25	Isobaric (compound) system. Excellent sub-bass extension. Sensitivity 90.8 dB. Install two of SL-300 face to face.
BANDPASS 4		48 L 1.7 ft³				5%	38	22		Closed
		36 L 1.3 ft³	2	100 mm 4"	240 mm 9.5"	25%	62	100	130	Vented
										Very compact system. Install SL-300 into the closed cavity, facing to the vented cavity.

Continued Over



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	NET VOLUME	TOTAL VOLUME	PORTS	DIA	LENGTH	FILL	F _b (Hz)	F ₃ (Hz)	F ₋₁₀ (Hz)	NOTES
BANDPASS 6 A		120 L 4.2 ft³	2	100 mm 4"	560 mm 22"	5% 24	28	20		Vented
		45 L 1.6 ft³	2	100 mm 4"	240 mm 9.5"	25%	55	80	105	Vented
Good sounding. Install SL-300 into the large vented cavity, facing to the small vented cavity. Both ports are vented to the outside.										
BANDPASS 6 B		100 L 3.5 ft³	2	75 mm 3"	330 mm 13"	10%	26	31	24	Vented
		38 L 1.3 ft³	4	75 mm 3"	160 mm 6.3"	10%	66	102	140	Vented
Suitable for theatre surround sound, in rooms up to 125 M ³ . Sensitivity 93.5 dB. Install SL-300 into the large vented cavity, facing to the small vented cavity. Both ports are vented to the outside.										
COMPOUND BP6 A		90 L 3.2 ft³	2	100 mm 4"	450 mm 17.5"	10%	30	30	25	Vented
		24 L 0.85 ft³	2	100 mm 4"	400 mm 15.5"	20%	62	85	125	Vented
Excellent sub-bass extension. Sensitivity 90.8 dB. Install two of SL-300 face to face, into the large vented cavity, facing to the small vented cavity. Both ports are vented to the outside.										
COMPOUND BP6 B		38 L 1.35 ft³	1	100 mm 4"	350 mm 13.7"	10%	37	30	26	Vented
		59 L 2.1 ft³	2	100 mm 4"	185 mm 7.3"	20%	54	85	125	Vented
Serial tuned enclosure. Sensitivity 90.3 dB. Install two of SL-300 drivers face to face. This design may infringe upon patents held by others. No license is given or implied. For educational or research use only. Must not be used as a basis for commercial production.										