



AVI SOUND INTERNATIONAL LTD.
 UNIT 170, 11120 BRIDGEPORT ROAD
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MODEL AVI SL-250, 250 mm (10") SUBWOOFER DRIVER

APPLICATIONS This is a subwoofer driver for high performance sound systems.
 Suggested operating range is 30 to 600 Hz.

PERFORMANCE 24 to 1100 Hz at -10 dB points, in optimum enclosure.
 30 to 450 Hz at -3 dB points, in optimum enclosure.
 500 watts music program material.
 250 watts AES pink noise rating.
 127 dB typical, in vehicle, with rated power.
 101 dB typical, at 1 watt, in vehicle.
 92 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 262 mm (10.3") overall diameter.
 109 mm (4.3") overall depth.
 229 mm (9") cut out hole diameter.
 99 mm (3.9") mounting depth.
 6.3 Kg (13.8 lbs) weight.

T/S DATA	Znom	4 Ω	Revc	3.2 Ω	Fo	33.4 Hz
	Sd	0.035 M ² (54.3 in ²)	Le	0.80 mH	SPL	92 dB
	Xmax	4.1 mm (0.16 in)	Qms	9.0	BL	11.9 TM
	Vas	72.0 L (2.54 ft ³)	Qes	0.28	Pnom	250 W
	Cms	394 μm/N	Qts	0.27	Pmax	500 W



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AVI SL-250 APPLICATION NOTE

	NET VOLUME	TOTAL VOLUME	PORTS	DIA	LENGTH	FILL	F _b (Hz)	F ₋₃ (Hz)	F ₋₁₀ (Hz)	NOTES
CLOSED		28 L/1 ft³				10%		65	35	
		Soft knee. Tight bass. A larger box adds no more useful output.								
INF-BAFFLE		> 300 L/10 ft³						70	30	
		Free air is not recommended because of some risk of suspension damage at high power.								
MINI VENTED	35 L 1.2 ft³		1	100 mm 4"	310 mm 12"	10%	42	45	34	
MAXI VENTED	50 L 1.75 ft³		1	100 mm 4"	195 mm 7.7"	10%	42	42	33	
		Maximum output level.								
EBS-VENT	37 L 1.3 ft³		1	100 mm 4"	360 mm 14.4"	10%	37	39	30	
		Extended bass shelf alignment. Very smooth, with good bass extension.								
BANDPASS 4	28 L/1 ft³					5%	42	32		Closed
	20 L 0.7 ft³		1	100 mm 4"	295 mm 11.5"	10%	64	100	140	Vented
		Compact. Install SL-250 into the closed cavity, facing to the vented cavity.								
BANDPASS 6 A	60 L 2.1 ft³		1	100 mm 4"	380 mm 15"	5%	28	30	23	Vented
	23 L 0.8 ft³		1	100 mm 4"	235 mm 9.25"	70%	60	80	110	Vented
		Install SL-250 into the large vented cavity, facing to the small vented cavity. Both ports are vented to the outside.								
BANDPASS 6 B	46 L 1.65 ft³		1	100 mm 4"	350 mm 14"	5%	34	35	29	Vented
	17 L 0.6 ft³		1	100 mm 4"	200 mm 8"	70%	60	102	147	Vented
		Install SL-250 into the large vented cavity, facing to the small vented cavity. Both ports are vented to the outside.								

Note: The small enclosure sizes required for the SL-250 make compound isobaric designs very questionable.