



AVI SOUND INTERNATIONAL LTD.
UNIT 170, 11120 BRIDGEPORT ROAD
RICHMOND, BC, CANADA V6X 1T2
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MODEL **AVI SS-250, 250 mm (10") SUBWOOFER DRIVER**

APPLICATIONS This is a subwoofer driver for high quality performance sound systems.
Suggested operating range is 32 to 550 Hz.

PERFORMANCE 22 to 1500 Hz at -10 dB points, in optimum vented enclosure without crossover.
32 to 550 Hz at -3 dB points, in optimum vented enclosure without crossover.
150 watts music program material.
100 watts AES pink noise rating.
88 dB average, at 1 watt and 1 meter, in half space.
4 ohm nominal, 3.5 ohm minimum.

FEATURES Cost aluminum frame with cavity vents, black finish.
Extended and vented pole piece with bumped and integrated bottom plate.
Both top and bottom plates with CNC and black absorbing finish.
Black paper cone with high linearity damped composite rubber edge.
Heavy duty gold plated brass terminals.
1098 g (38.7 oz) magnet.
50 mm (2") two layer heavy copper voice coil.

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.
3.64 Kg (8 lbs) weight.

T/S DATA	Znom 4 Ω	Revc 3.5 Ω	Fo 28.4 Hz
	Sd 0.035 M ² (54.3 in ²)	Le 1.152 mH	SPL 88 dB
	Xmax 10 mm (0.4 in)	Qms 3.134	BL 9.31 TM
	Vas 79.5 L (2.8 ft ³)	Qes 0.441	Pnom 150 W
	Cms 514.3 μ m/N	Qts 0.386	Pmax 300 W



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AVI SS-250 APPLICATION NOTE

	NET VOLUME	TOTAL VOLUME	PORTS	DIA	LENGTH	FILL	F _b (Hz)	F ₃ (Hz)	F ₁₀ (Hz)	NOTES
CLOSED A	15.5 L 0.55 ft³	17 L 0.6 ft³				Typical		65	40	Qtc=0.79
CLOSED B	21.4 L 0.76 ft³	23 L 0.8 ft³				Typical		62	36	Qtc=0.707
CLOSED C	27 L 0.95 ft³	28.5 L 1 ft³				Typical		61	34	Qtc=0.66
VENTED A	39.5 L 1.4 ft³	42 L 1.5 ft³	1 3"	75 mm 10"	250 mm	Minimal	32	39	26	
VENTED B	63.6 L 2.2 ft³	66 L 2.3 ft³	1 3"	75 mm 7.5"	190 mm	Minimal	28	32	22	Optimum
VENTED C	84 L 3 ft³	86 L 3 ft³	1 3"	75 mm 3"	160 mm 6.3"	Minimal	26	29	20	Extended Bass
ISO-VENT	31.8 L 1.1 ft³	44.4 L 1.6 ft³	1 3"	75 mm 17.7"	450 mm	Minimal	28	32	22	Optimum
Install two of SS-250 face to face.										
BANDPASS 4	26.3 L 0.9 ft³	28 L 1 ft³				Minimal		36	27	Closed
	21.8 L 0.8 ft³	24 L 0.85 ft³	2 3"	75 mm 3"	270 mm 10.6"	Minimal	59	96	135	Vented
Install SS-250 into the closed cavity, facing to the vented cavity.										
BANDPASS 6	63.5 L 2.2 ft³	66 L 2.3 ft³	1 3"	75 mm 7.5"	190 mm	Minimal	28	30	23	Vented
	32.9 L 1.2 ft³	34 L 1.2 ft³	2 3"	75 mm 6.7"	170 mm	Minimal	56	82	112	Vented

Install SS-250 into the large vented cavity, facing to the small vented cavity. Both ports are vented to the outside.

Notes: Minimal Fill means one of each pair of opposing walls is covered with absorptive material.

Typical Fill means all walls are covered with absorptive material.