



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 SLS-250, 250 mm (10") SUBWOOFER DRIVER**

**APPLICATIONS**      This is a subwoofer driver for high performance sound systems.  
 Suggested operating range is 28 to 500 Hz.

**PERFORMANCE**      21.3 to 1400 Hz at -10 dB points, in optimum vented enclosure.  
 28 to 520 Hz at -3 dB points, in optimum vented enclosure.  
 500 watts music program material.  
 250 watts AES pink noise rating.  
 88.5 dB average, at 1 watt and 1 meter, in half space.  
 4 ohm nominal, 4 ohm minimum.

**FEATURES**            Cast aluminum frame with cavity vents, black finish.  
 Undercut, extended and vented pole piece with integrated bottom plate.  
 Both top and bottom plates with black absorbing finish.  
 Bottom plate with CNC and vented holes.  
 Yellow ceramic cone with linearity damped composite rubber edge.  
 Heavy duty gold plated brass terminals.  
 2 X 1409 g (2 X 49.7 oz) magnet.  
 65 mm (2.5") copper ribbon voice coil, OFC edge wound.

**PHYSICAL**            262 mm (10.3") overall diameter.  
 125 mm (4.9") overall depth.  
 229 mm (9") cut out hole diameter.  
 115 mm (4.5") mounting depth.  
 6.6 Kg (14.5 lbs) weight.

<b>T/S DATA</b>	Znom	4 Ω	Revc	4 Ω	Fo	34.8 Hz
	Sd	0.034 M <sup>2</sup> (52.7 in <sup>2</sup> )	Le	1.429 mH	SPL	88.5 dB
	Xmax	7.1 mm (0.28 in)	Qms	4.113	BL	13.97 TM
	Vas	29.3 L (1.04 ft <sup>3</sup> )	Qes	0.539	Pnom	250 W
	Cms	178.2 μm/N	Qts	0.477	Pmax	500 W



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**AVI SLS-250 APPLICATION NOTE**

	NET VOLUME	TOTAL VOLUME	PORTS	DIA	LENGTH	FILL	Fb (Hz)	F <sub>3</sub> (Hz)	NOTES
<b>CLOSED A</b>	<b>16 L</b> <b>0.57 ft<sup>3</sup></b>	<b>18 L</b> <b>0.64 ft<sup>3</sup></b>						<b>58</b>	Qtc=0.707
<b>CLOSED B</b>	<b>26 L</b> <b>0.9 ft<sup>3</sup></b>	<b>28 L</b> <b>1 ft<sup>3</sup></b>						<b>57</b>	Qtc=0.629
<b>CLOSED C</b>	<b>40 L</b> <b>1.4 ft<sup>3</sup></b>	<b>42 L</b> <b>1.5 ft<sup>3</sup></b>						<b>57</b>	Qtc=0.573
<b>VENTED A</b>	<b>42 L</b> <b>1.5 ft<sup>3</sup></b>	<b>50 L</b> <b>1.8 ft<sup>3</sup></b>	<b>1</b>	<b>100 mm</b> <b>4"</b>	<b>630 mm</b> <b>24.8"</b>	Minimal	<b>28</b>	<b>28</b>	Optimum
<b>VENTED B</b>	<b>42 L</b> <b>1.5 ft<sup>3</sup></b>	<b>47</b> <b>1.7 ft<sup>3</sup></b>	<b>1</b>	<b>100 mm</b> <b>4"</b>	<b>330 mm</b> <b>13"</b>	Minimal	<b>38</b>	<b>32</b>	Optimum
<b>VENTED C</b>	<b>43 L</b> <b>1.5 ft<sup>3</sup></b>	<b>51</b> <b>1.8 ft<sup>3</sup></b>	<b>1</b>	<b>100 mm</b> <b>4"</b>	<b>620 mm</b> <b>24.4"</b>	Minimal	<b>28</b>	<b>27</b>	X-Bass
<b>BANDPASS 4</b>	<b>15.5 L</b> <b>0.55 ft<sup>3</sup></b>	<b>18 L</b> <b>0.64 ft<sup>3</sup></b>				Minimal		<b>35</b>	Closed
	<b>11 L</b> <b>0.4 ft<sup>3</sup></b>	<b>15 L</b> <b>0.5 ft<sup>3</sup></b>	<b>1</b>	<b>100 mm</b> <b>4"</b>	<b>560 mm</b> <b>22"</b>	Minimal	<b>58</b>	<b>100</b>	Vented
Install SLS-250 into the closed cavity, facing to the vented cavity.									
<b>BANDPASS 6</b>	<b>50 L</b> <b>1.8 ft<sup>3</sup></b>	<b>57 L</b> <b>2 ft<sup>3</sup></b>	<b>1</b>	<b>100 mm</b> <b>4"</b>	<b>510 mm</b> <b>20"</b>	Minimal	<b>28</b>	<b>30</b>	Vented
	<b>21 L</b> <b>0.74 ft<sup>3</sup></b>	<b>23 L</b> <b>0.8 ft<sup>3</sup></b>	<b>1</b>	<b>100 mm</b> <b>4"</b>	<b>310 mm</b> <b>12.2"</b>	Minimal	<b>53</b>	<b>68</b>	Vented
Install SLS-250 into the large vented cavity, facing to the small vented cavity. Both ports are vented to the outside.									

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