



AVI SOUND INTERNATIONAL LTD.  
 UNIT 170, 11120 BRIDGEPORT ROAD  
 RICHMOND, BC, CANADA V6X 1T2  
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**MODEL**                    **AVI SLS-300, 300 mm (12") SUBWOOFER DRIVER**

**APPLICATIONS**        This is a subwoofer driver for high performance sound systems.  
 Suggested operating range is 27 to 550 Hz.

**PERFORMANCE**        18 to 1550 Hz at -10 dB points, in optimum vented enclosure.  
 27 to 555 Hz at -3 dB points, in optimum vented enclosure.  
 500 watts music program material.  
 250 watts AES pink noise rating.  
 89.5 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**              312 mm (12.3") overall diameter.  
 145 mm (5.7") overall depth.  
 272 mm (10.7") cut out hole diameter.  
 132 mm (5.2") mounting depth.  
 6.8 Kg (15 lbs) weight.

<b>T/S DATA</b>	Znom	4 Ω	Revc	4 Ω	Fo	19.3 Hz
	Sd	0.05 M <sup>2</sup> (77.5 in <sup>2</sup> )	Le	1.277 mH	SPL	89.5 dB
	Xmax	7.1 mm (0.28 in)	Qms	2.267	BL	13.3 TM
	Vas	166.8 L (5.9 ft <sup>3</sup> )	Qes	0.405	Pnom	250 W
	Cms	469.9 μm/N	Qts	0.343	Pmax	500 W



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### AVI SLS-300 APPLICATION NOTE

	NET VOLUME	TOTAL VOLUME	PORTS	DIA	LENGTH	FILL	Fb (Hz)	F <sub>3</sub> (Hz)	NOTES
<b>CLOSED A</b>	<b>25</b> <b>0.9 ft<sup>3</sup></b>	<b>28 L</b> <b>1 ft<sup>3</sup></b>				Minimal		<b>47</b>	Qtc=0.810
<b>CLOSED B</b>	<b>31 L</b> <b>1.1 ft<sup>3</sup></b>	<b>34 L</b> <b>1.2 ft<sup>3</sup></b>				Minimal	<b>46</b>		Qtc=0.748
<b>CLOSED C</b>	<b>36 L</b> <b>1.3 ft<sup>3</sup></b>	<b>40 L</b> <b>1.4 ft<sup>3</sup></b>				Minimal		<b>45</b>	Qtc=0.707
<b>VENTED A</b>	<b>50 L</b> <b>1.8 ft<sup>3</sup></b>	<b>56 L</b> <b>2 ft<sup>3</sup></b>	<b>1</b>	<b>100 mm</b> <b>4"</b>	<b>300 mm</b> <b>11.8"</b>	Minimal	<b>35</b>	<b>33</b>	
<b>VENTED B</b>	<b>79 L</b> <b>2.8 ft<sup>3</sup></b>	<b>85</b> <b>3 ft<sup>3</sup></b>	<b>1</b>	<b>100 mm</b> <b>4"</b>	<b>330 mm</b> <b>13"</b>	Minimal	<b>28</b>	<b>27</b>	Optimum
<b>VENTED C</b>	<b>79 L</b> <b>2.8 ft<sup>3</sup></b>	<b>88</b> <b>3.1 ft<sup>3</sup></b>	<b>1</b>	<b>100 mm</b> <b>4"</b>	<b>580 mm</b> <b>22.8"</b>	Minimal	<b>21</b>	<b>27</b>	Optimum
<b>BANDPASS 4</b>	<b>36 L</b> <b>1.3 ft<sup>3</sup></b>	<b>40 L</b> <b>1.4 ft<sup>3</sup></b>				Minimal		<b>27</b>	Closed
	<b>32 L</b> <b>1.1 ft<sup>3</sup></b>	<b>33 L</b> <b>1.2 ft<sup>3</sup></b>	<b>1</b>	<b>100 mm</b> <b>4"</b>	<b>270 mm</b> <b>10.6"</b>	Minimal	<b>45</b>	<b>77</b>	Vented
Install SLS-300 into the closed cavity, facing to the vented cavity.									
<b>BANDPASS 6</b>	<b>79 L</b> <b>2.8 ft<sup>3</sup></b>	<b>88 L</b> <b>3.1 ft<sup>3</sup></b>	<b>1</b>	<b>100 mm</b> <b>4"</b>	<b>580 mm</b> <b>22.8"</b>	Minimal	<b>21</b>	<b>25</b>	Vented
	<b>44 L</b> <b>1.5 ft<sup>3</sup></b>	<b>46 L</b> <b>1.6 ft<sup>3</sup></b>	<b>1</b>	<b>100 mm</b> <b>4"</b>	<b>180 mm</b> <b>7"</b>	Minimal	<b>43</b>	<b>60</b>	Vented
Install SLS-300 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.