



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

APPLICATIONS This is a subwoofer driver for high performance sound systems.
 Suggested operating range is 46 to 640 Hz.

PERFORMANCE 29 to 1700 Hz at -10 dB points, in optimum vented enclosure.
 46 to 640 Hz at -3 dB points, in optimum vented enclosure.
 500 watts music program material.
 250 watts AES pink noise rating.
 91 dB average, at 1 watt and 1 meter, in half space.
 4 ohm nominal, 3.2 ohm minimum.

FEATURES Black fiberglass frame with cavity vents.
 Extended and vented pole piece with integrated bottom plate.
 Both top and bottom plates with CNC and black absorbing finish.
 Yellow reinforced woven fiberglass cone with one-inch composite rubber edge.
 Dual custom Conex dampers.
 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.
 6.35 Kg (14 lbs) weight.

T/S DATA	Znom	4 Ω	Revc	3.2 Ω	Fo	33.3 Hz
	Sd	0.0474 M ² (73.5 in ²)	Le	0.913 mH	SPL	91 dB
	Xmax	4.1 mm (0.16 in)	Qms	6.23	BL	13.34 TM
	Vas	74.3 L (2.6 ft ³)	Qes	0.369	Pnom	250 W
	Cms	232.9 μm/N	Qts	0.349	Pmax	500 W



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AVI GS-300 APPLICATION NOTE

	NET VOLUME	TOTAL VOLUME	PORTS	DIA	LENGTH	FILL	F _b (Hz)	F ₋₃ (Hz)	NOTES
CLOSED A	18 L 0.64 ft³	21 L 0.74 ft³						76	Qtc=0.707
CLOSED B	25 L 0.9 ft³	28 L 1 ft³						74	Qtc=0.628
CLOSED C	39 L 1.4 ft³	42 L 1.5 ft³						74	Qtc=0.545
VENTED A	37 L 1.3 ft³	44 L 1.55 ft³	1	100 mm 4"	310 mm 12.2"	Minimal	36	45	Optimum
VENTED B	55 L 1.9 ft³	61 2.2 ft³	1	100 mm 4"	310 mm 12"	Minimal	32	39	X-Bass
VENTED C	55 L 1.9 ft³	62 2.2 ft³	2	75 mm 3"	380 mm 15"	Minimal	32	39	X-Bass
BANDPASS 4	17 L 0.6 ft³	20 L 0.7 ft³				Minimal		46	Closed
	15 L 0.5 ft³	15 L 0.5 ft³	1	100 mm 4"	170 mm 6.7"	Minimal	76	130	Vented
Install GS-300 into the closed cavity, facing to the vented cavity.									
BANDPASS 6	37 L 1.3 ft³	44 L 1.55 ft³	1	100 mm 4"	400 mm 15.7"	Minimal	36	43	Vented
	21 L 0.74 ft³	21 L 0.74 ft³	1	100 mm 4"	110 mm 4.3"	Minimal	74	100	Vented
Install GS-300 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.