



AVI SOUND INTERNATIONAL LTD.
 UNIT 170, 11120 BRIDGEPORT ROAD
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MODEL **AVI SS-300, 300 mm (12") SUBWOOFER DRIVER**

APPLICATIONS This is a subwoofer driver for high quality performance sound systems. Suggested operating range is 28 to 550 Hz.

PERFORMANCE 20 to 1600 Hz at -10 dB points, in vented enclosure without crossover.
 28 to 550 Hz at -3 dB points, in vented enclosure without crossover.
 200 watts music program material.
 150 watts AES pink noise rating.
 89 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 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.
 4.0 Kg (8.8 lbs) weight.

T/S DATA	Znom	4 Ω	Revc	3.5 Ω	Fo	29.2 Hz
	Sd	0.049 M ² (76 in ²)	Le	1.039 mH	SPL	89 dB
	Xmax	10 mm (0.4 in)	Qms	4.184	BL	9.14 TM
	Vas	128.9 L (4.55 ft ³)	Qes	0.604	Pnom	150 W
	Cms	377.9 μm/N	Qts	0.528	Pmax	300 W



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AVI SS-300 APPLICATION NOTE

	NET VOLUME	TOTAL VOLUME	PORTS	DIA	LENGTH	FILL	F _b (Hz)	F ₋₃ (Hz)	F ₋₁₀ (Hz)	NOTES
CLOSED A	25.6 L 0.9 ft³	28.3 L 1 ft³				Typical		56	37	Qtc=0.96
CLOSED B	40 L 1.4 ft³	42.7 L 1.5 ft³				Typical		51	32	Qtc=0.83
CLOSED C	72.4 L 2.6 ft³	75 L 2.7 ft³				Typical		47	27	Qtc=0.707
ISO-CLOSE	36.8 L 1.3 ft³	55 L 1.9 ft³				Typical		47	27	Qtc=0.707

The vented enclosures are not recommended.

ISO-VENT	55 L 1.9 ft³	57.7 L 2 ft³	1	100 mm 4"	410 mm 16.1"	Minimal	29	29	21	
	Install two of SS-300 face to face.									
BANDPASS 4	95.6 L 3.4 ft³	98.3 L 3.5 ft³				Minimal		27	20	Closed
	58.4 L 2.1 ft³	62.8 L 2.2 ft³	2	100 mm 4"	300 mm 11.8"	Minimal	44	72	100	Vented
	Install SS-300 into the closed cavity, facing to the vented cavity.									

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.