



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 GX-300, 300 mm (12") SUBWOOFER DRIVER**

APPLICATIONS This is a subwoofer driver for very high power & quality performance sound systems. Suggested operating range is 32 to 1500 Hz.

PERFORMANCE 23 Hz at -10 dB points, in optimum vented enclosure without crossover.
 32 to 1500 Hz at -3 dB points, in optimum vented enclosure without crossover.
 1200 watts music program material.
 800 watts AES pink noise rating.
 88 dB average, at 1 watt and 1 meter, in half space.
 4 ohm nominal, 3.1 ohm minimum.

FEATURES Black fiberglass frame with cavity vents.
 Extended and vented pole piece with integrated bottom plate.
 Both top and bottom plate with CNC and black absorbing finish.
 PP mica cone.
 Dual custom Conex dampers.
 2 X 1419 g (2 X 50oz) stacked double magnets.
 75 mm (3") two layer heavy copper voice coil, high temperature and quality former.

PHYSICAL 321 mm (12.6") overall diameter.
 145 mm (5.7") overall depth.
 284 mm (11.2") cut out hole diameter.
 132 mm (5.2") mounting depth.
 8.6 Kg (19 lbs) weight.

| | | | | | | |
|-----------------|------|---|------|----------|------|---------|
| T/S DATA | Znom | 4 Ω | Revc | 3.1 Ω | Fo | 34.5 Hz |
| | Sd | 0.0471 M ² (73 in ²) | Le | 0.328 mH | SPL | 88 dB |
| | Xmax | 14mm (0.55 in) | Qms | 3.186 | BL | 13.8 TM |
| | Vas | 48.09 L (1.7 ft ³) | Qes | 0.492 | Pnom | 800 W |
| | Cms | 153 μm/N | Qts | 0.436 | Pmax | 1200 W |



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AVI GX-300 APPLICATION NOTE

| | NET VOLUME | TOTAL VOLUME | PORTS | DIA | LENGTH | FILL | F _b (Hz) | F ₃ (Hz) | F ₁₀ (Hz) | NOTES |
|-----------------|---|--|-------|-----|--------|---------|---------------------|---------------------|----------------------|-----------|
| CLOSED A | 11.19 L 0.395 ft³ | 14.3L 0.503ft³ | | | | Typical | | 73 | 41 | Qtc=0.707 |
| CLOSED B | 20L 0.71 ft³ | 23.1L 0.82ft³ | | | | Typical | | 72 | 35 | Qtc=0.6 |

Those closed boxes are not recommended because of less efficiency.

| | | | | | | | | | | |
|-----------------|--|---|----------|---------------------------|------------------------------|---------|-----------|-----------|-----------|---------------|
| VENTED A | 59L 2.1 ft³ | 63 L 2.2 ft³ | 1 | 75 mm 3" | 208 mm 8.2" | Minimal | 29 | 33 | 23 | Extended Bass |
| VENTED B | 51 L 1.8 ft³ | 55 L 1.95 ft³ | 1 | 75 mm 3" | 226 mm 8.9" | Minimal | 30 | 32 | 23 | Optimum |

| | | | | | | | | | | |
|-------------------------------------|---|--|----------|---------------------------|-------------------------------|---------|-----------|------------|------------|--------|
| BANDPASS 4 (Single-tuned) | 19.5 L 0.69 ft³ | 22.6 L 0.8 ft³ | | | | Minimal | | 38 | 29 | Closed |
| | 14.9 L 0.53 ft³ | 14.7L 0.52 ft³ | 1 | 75 mm 3" | 164 mm 6.45" | Minimal | 63 | 106 | 143 | Vented |

Install GX-300 into the close cavity, facing to the vented cavity.

| | | | | | | | | | | |
|--|--|---|----------|---------------------------|------------------------------|---------|-----------|-----------|------------|--------|
| BANDPASS 6 (Parallel Double tuned) | 56 L 1.96 ft³ | 60 L 2.1 ft³ | 1 | 75 mm 3" | 201 mm 7.9" | Minimal | 30 | 33 | 25 | Vented |
| | 25.5 L 0.9 ft³ | 25 L 0.89 ft³ | 1 | 75 mm 3" | 86 mm 3.4" | Minimal | 59 | 78 | 113 | Vented |

Install GX-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.
 Typical Fill means all walls are covered with absorptive material.