

Installation notes

S10 automotive hifi subwoofer

description

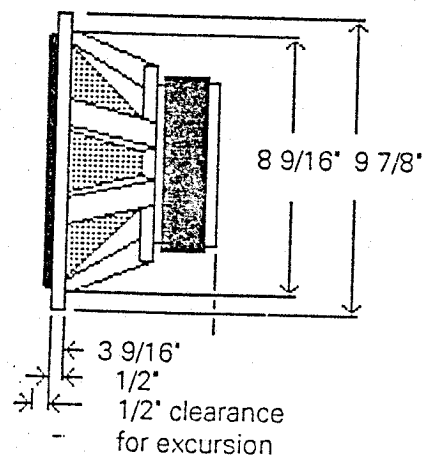
A 10" high compliance subwoofer with Stiffite® cone designed for custom sealed enclosure or infinite baffle applications. A butyl rubber surround and ultra long throw 2" linear drive wet wound Kapton® voice coil provides high power handling and long-term durability. A cast basket provides high rigidity and assures precise alignment of the moving structure especially needed in rear-deck infinite baffle applications.

specifications

Free-air resonance - $F_s = 16\text{Hz} \pm 1\text{Hz}$
Equivalent volume of compliance - $V_{as} = 8.1$ cubic feet
Total damping - $Q_{ts} = .208$
Electrical damping - $Q_{es} = .217$
Mechanical damping - $Q_{ms} = 5.17$
Piston area - $S_d = 51.1$ square inches
Peak linear excursion - $X_{max} = \pm .23"$
Recommended amplifier power - min. 20W, max. 200W
Impedance = 4Ω nominal, 3.6Ω DC resistance

enclosure recommendations

- A. **1/2 cubic foot**
 $F_c = 66\text{Hz}$
 $Q_{tc} = .86$
-3db point = 56Hz
- B. **3/4 cubic foot**
 $F_c = 55\text{Hz}$
 $Q_{tc} = .71$
-3db point = 55Hz
- C. **1.0 cubic foot**
 $F_c = 48\text{Hz}$
 $Q_{tc} = .62$
-3db point = 54Hz
- D. **≥ 8 cubic foot (infinite baffle)**
 $F_c \leq 22.83\text{Hz}$
 $Q_{tc} \leq .29$
-3db point $\leq 30\text{Hz}$



*referenced to 85Hz when used with 642CSi