

- 4-layers dual voice coil
- Kapton® voice coil support
- High grade Y30 magnet
- Motor made of very low carbon steel
- Optimized motor design
- Long travel rubber surround
- Steel basket
- Internal stiffening ring
- Treated cellulose pulp cone
- Conex® spider
- CNC plates processing

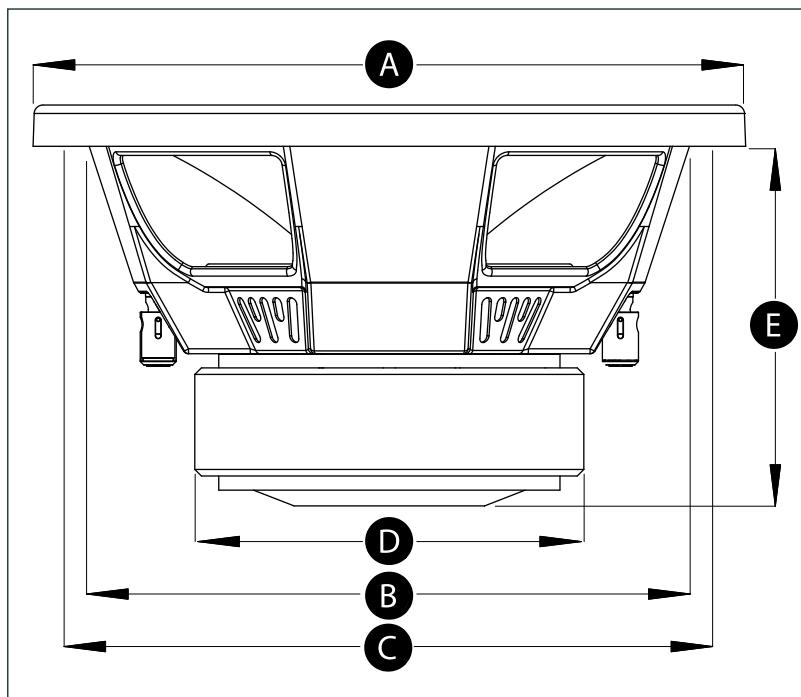


Your ESB subwoofer is a precision loudspeaker which has been designed to produce very high-quality sub-bass frequency performance in your car. For maximize the performance of your speaker we highly recommend to use a dedicated enclosure. Inside this manual you will find specifications and two recommended enclosures for your speaker: one is a sealed enclosure, the other is a ported design. Both types of enclosures will give you excellent sound quality and low-frequency extension. The sealed enclosure is a better choice if space is extremely tight, but the ported enclosure will produce 3dB more output at the same power if you have the extra space to work with.

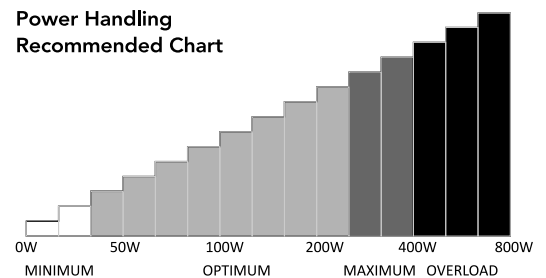
**T&S parameters specification**

Free air resonance (Fs):	44.9 Hz
Electrical "Q" (Qes):	0.71
Mechanical "Q" (Qms):	3.69
Total speaker "Q" (Qts):	0.60
Equivalent Compliance (Vas):	0.569 ft <sup>3</sup> / 16.10 lit.
Linear Excursion (Xmax):	0.551" / 14 mm
Efficiency (1W/1m):	85.0 dB SPL
Effective piston area (Sd):	0.558 in <sup>3</sup> / 359,68 mm <sup>2</sup>
DC resistance* (Re):	3.48 Ohm / 1.79 Ohm
Nominal impedance:	2+2 Ohm
Power handling (continuous):	400 W
Power handling (peak)	800 W

\*Series and parallel value



**Power Handling Recommended Chart**



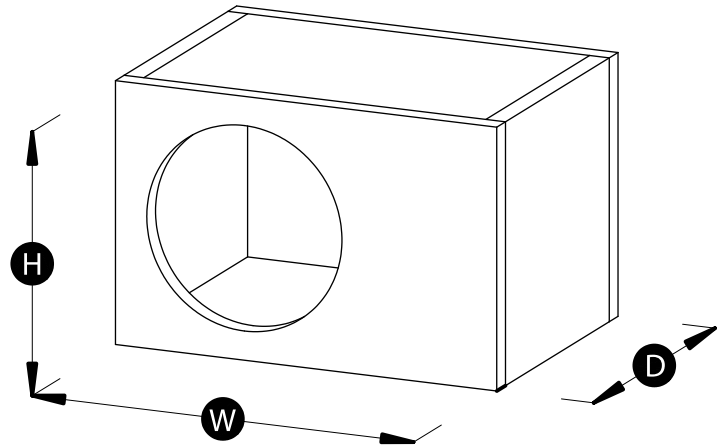
**Physical specification**

Nominal diameter:	10" / 250 mm
Overall diameter (A)	10.66" / 271 mm
Mounting hole diam. (B)	9.13" / 232 mm
Bolt hole circle (C)	9.84" / 250 mm
Magnet diameter (D)	5.31" / 135 mm
Mounting Depth (E)	5.39" / 137 mm
Driver displacement	0.032 ft <sup>3</sup> / 0.92 l

**Recommended Sealed Enclosure**

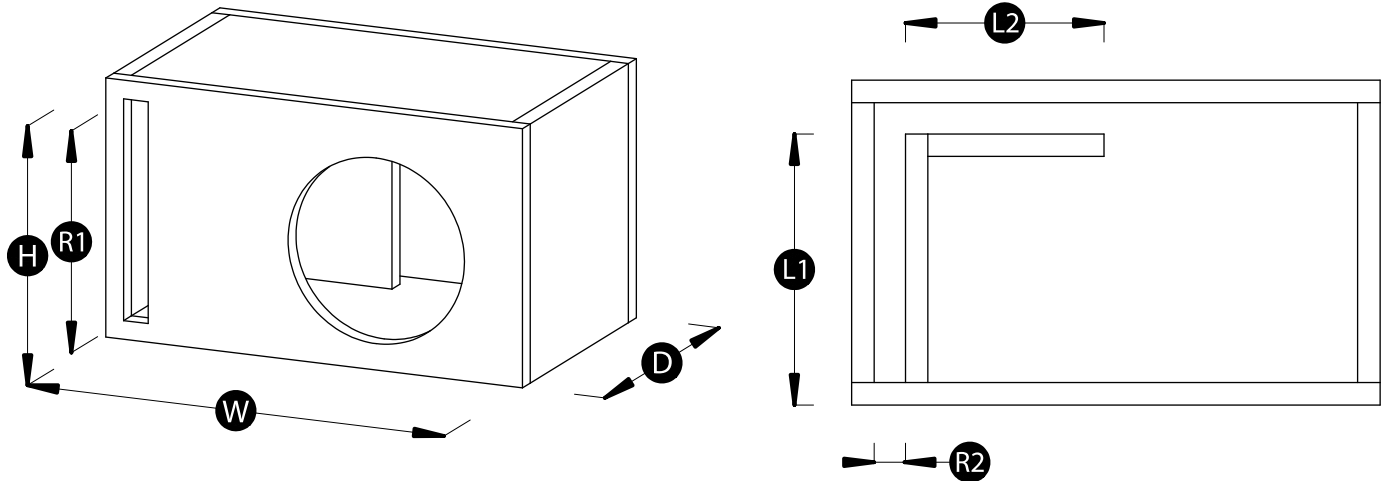
- Volume (include speaker displacement): 0.547 in<sup>3</sup> / 15.5 lit.
- External dimension (W,H,D): 16.73×11.81×9.84" / 425×300×250 mm

Note: Dimension are assume with 3/4" material (19mm). This is the suggested thickness. Less thickness may compromise box rigidity with leak bass response.



**Recommended Ported Enclosure (Reflex option A)**

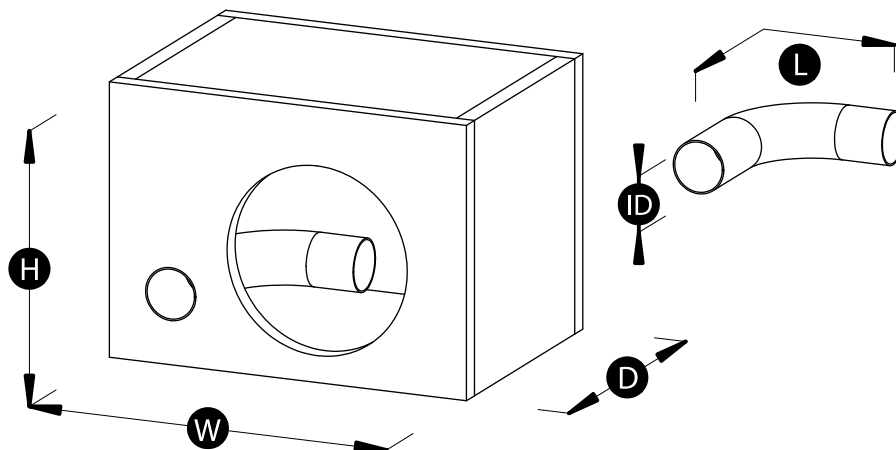
- Volume (include speaker displacement): 0.706 in<sup>3</sup> / 20 lit.
- External dimension (W,H,D): 18.11×10.23×11.02" / 460×260×280 mm
- Reflex port dimension (R1,R2): 10×0.787" / 254×20 mm • Reflex port length (L1,L2): 9.52+1.81" / 242+30 mm



Note: Dimension are assume with 3/4" material (19mm). This is the suggested thickness. Less thickness may compromise box rigidity with leak bass response.

**Recommended Ported Enclosure (Reflex option B)**

- Volume (include speaker displacement): 0.706 in<sup>3</sup> / 20 lit.
- External dimension (W,H,D): 17.32×11.41×10.23" / 440×290×260 mm
- Reflex tube internal diameter (ID): 3.07" / 78 mm • Reflex tube length (L): 9.85" / 250 mm



Note: Dimension are assume with 3/4" material (19mm). This is the suggested thickness. Less thickness may compromise box rigidity with leak bass response.