

# Imagine Subwoofers Specifications & Parameters

|                                       | I6SW-V2                | I8SW                   | I10SW                  | I12SW-V2                  |
|---------------------------------------|------------------------|------------------------|------------------------|---------------------------|
| Overall Diameter                      | φ168 mm<br>(6.6-inch)  | φ206 mm<br>(8.1-inch)  | φ256 mm<br>(10-inch)   | φ309.5 mm<br>(10.77-inch) |
| Mounting Depth                        | 85 mm                  | 102 mm                 | 130 mm                 | 127 mm                    |
| Bolt Circle Diameter                  | φ160 mm                | φ192 mm                | φ248 mm                | φ294 mm                   |
| Mounting Hole                         | φ148 mm                | φ184 mm                | φ235 mm                | φ283 mm                   |
| Pnom Rated Power Input (AES Standard) | 125 watts              | 150 watts              | 175 watts              | 225 watts                 |
| Pmax Rated Power Input (AES Standard) | 250 watts              | 300 watts              | 350 watts              | 450 watts                 |
| Frequency Response (+/- 3dB)          | 32 - 800 Hz            | 30 - 800 Hz            | 28 - 800 Hz            | 27 - 1000 Hz              |
| Efficiency 2.83V/1 meter              | 88.6 dB                | 90 dB                  | 91 dB                  | 91.5 dB                   |
| Mms                                   | 56.6 g                 | 63.5 g                 | 88.5 g                 | 171 g                     |
| Cms                                   | 308.9 um/N             | 310 um/N               | 285 um/N               | 202 um/N                  |
| BL (T*m)                              | 17.681                 | 13.3                   | 13.6                   | 16.4                      |
| Voice Coil Diameter                   | 50 mm (2-inch)         | 50 mm (2-inch)         | 50 mm (2-inch)         | 50 mm (2-inch)            |
| Impedance                             | 4 Ω                    | 4 Ω                    | 4 Ω                    | 4 Ω                       |
| DC Resistance                         | 3.9 Ω                  | 3.8 Ω                  | 3.6 Ω                  | 3.6 Ω                     |
| Fs (Free Air)                         | 38 Hz                  | 35 Hz                  | 30 Hz                  | 27 Hz                     |
| Qms                                   | 8.077                  | 5.5                    | 5.65                   | 7.0                       |
| Qes                                   | 0.169                  | 0.29                   | 0.34                   | 0.39                      |
| Qts                                   | 0.165                  | 0.27                   | 0.32                   | 0.37                      |
| Xmax (Two Way)                        | 12 mm                  | 16 mm                  | 18 mm                  | 24 mm                     |
| Vas                                   | 7.263 L                | 18.5 L                 | 49.5 L                 | 71 L                      |
| Le                                    | 1.42 mH                | 1.52 mH                | 1.48 mH                | 1.56 mH                   |
| Sd                                    | 12,868 mm <sup>2</sup> | 20,612 mm <sup>2</sup> | 34,636 mm <sup>2</sup> | 49,876 mm <sup>2</sup>    |

† Typically, in-car response including vehicular “cabin gain”, or the gain expected with subwoofer(s) installed in the vehicle, will result in an extended subbass response. This is a result of these frequencies being below the lowest resonance in the vehicle (typically around 50-70 Hz in most vehicles). In more practical terms, install the Imagine subwoofer(s) into your vehicle and you will see a dramatic improvement in subbass and midbass output, much more so than just simply listening to the Imagine in a large room, or worse yet, “free air” (we don’t recommend even trying the Imagine subwoofers in “free air” without some form of recommended enclosure).

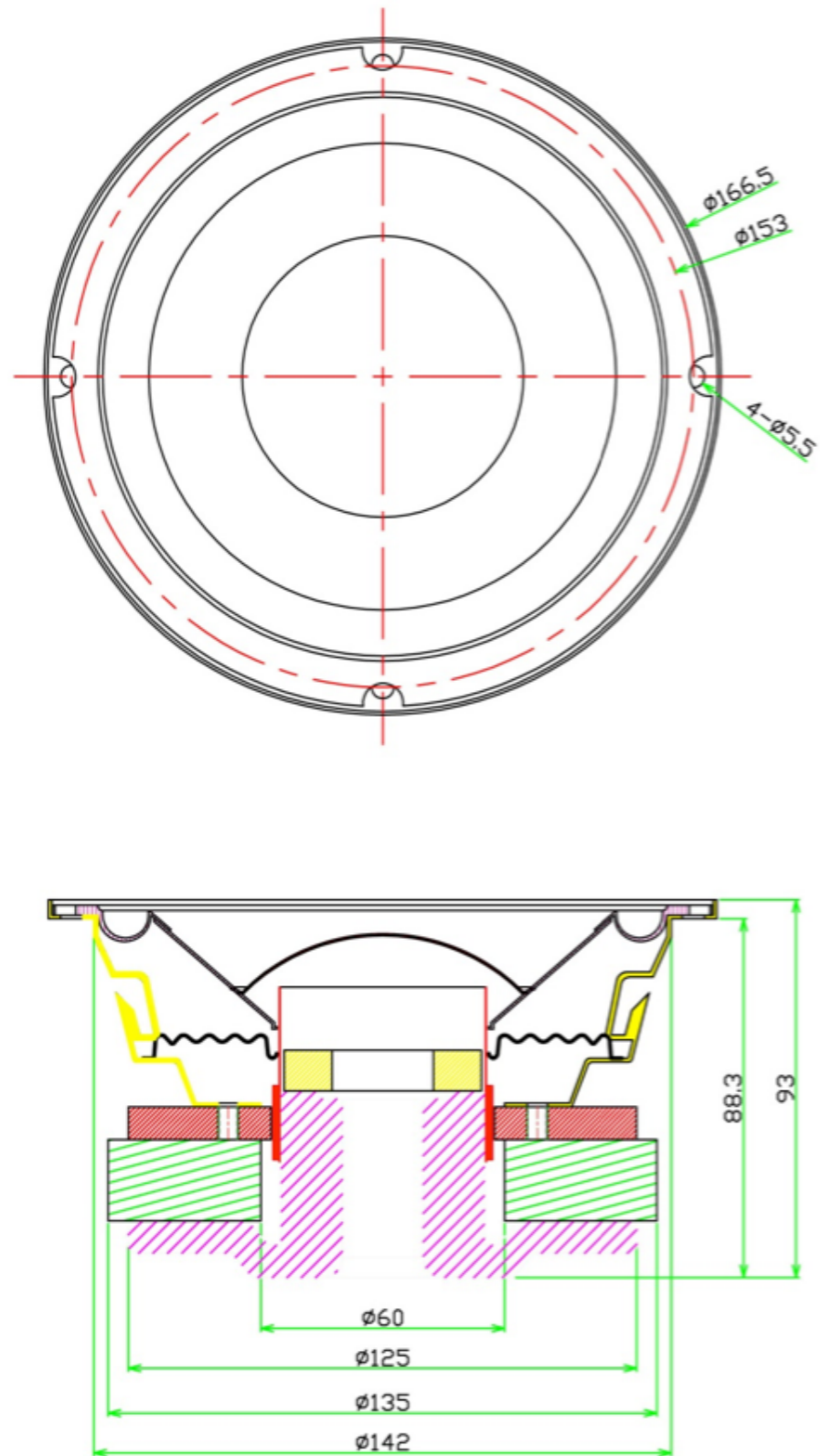
# Imagine Subwoofers Enclosure Recommendations

|          |    | Trunk                 |          | SUV / Hatch/ Wagon    |          |
|----------|----|-----------------------|----------|-----------------------|----------|
|          |    | Vented                | Sealed   | Vented                | Sealed   |
| I6SW-V2  | Vb | 6.00 liter            | 8 liter  | 8.00 liter            | 10 liter |
|          | Av | 5.06 cm <sup>2</sup>  |          | 5.06 cm <sup>2</sup>  |          |
|          | Lv | 20.00 cm              |          | 15.00 cm              |          |
| I8SW     | Vb | 18.00 liter           | 18 liter | 22.00 liter           | 21 liter |
|          | Av | 20.25 cm <sup>2</sup> |          | 20.25 cm <sup>2</sup> |          |
|          | Lv | 25.00 cm              |          | 21.00 cm              |          |
| I10SW    | Vb | 24.00 liter           | 22 liter | 38.00 liter           | 26 liter |
|          | Av | 20.25 cm <sup>2</sup> |          | 45.57 cm <sup>2</sup> |          |
|          | Lv | 21.00 cm              |          | 25.00 cm              |          |
| I12SW-V2 | Vb | 48.00 liter           | 39 liter | 52.00 liter           | 42 liter |
|          | Av | 45.57 cm <sup>2</sup> |          | 45.57 cm <sup>2</sup> |          |
|          | Lv | 23.00 cm              |          | 18.00 cm              |          |

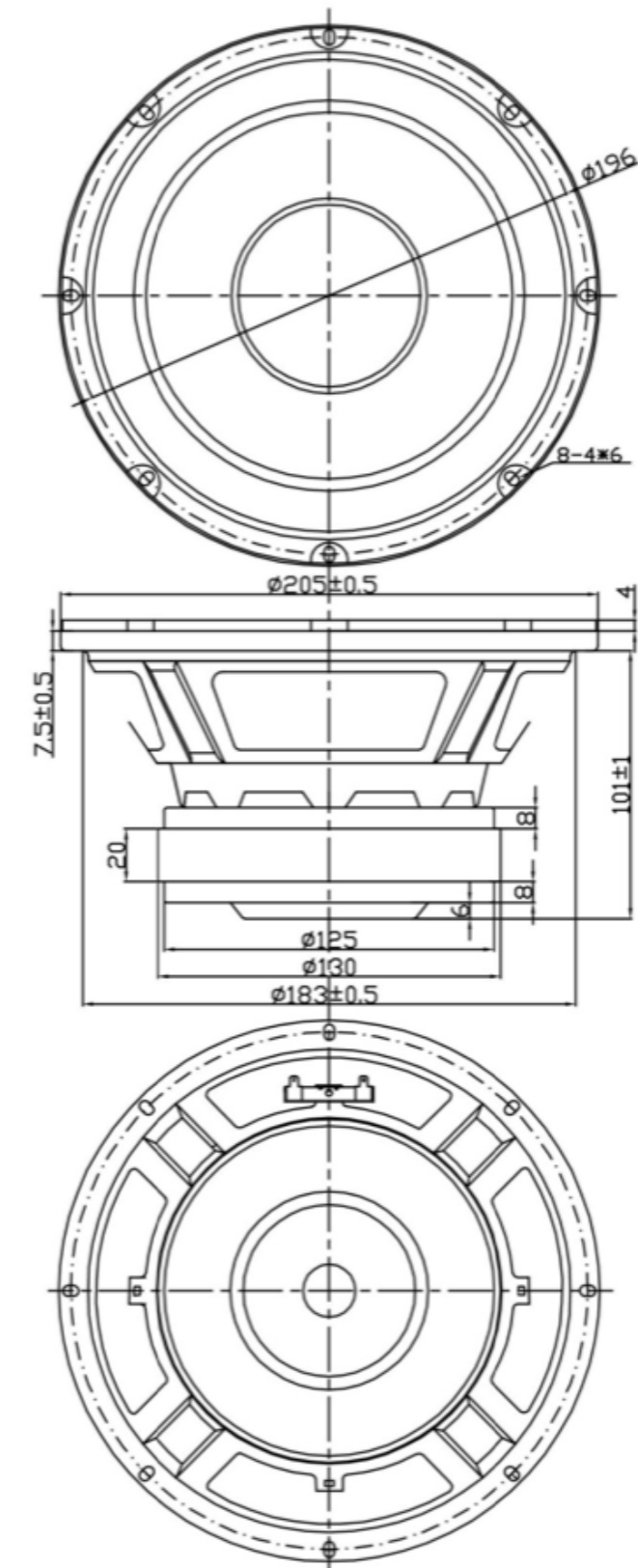
The user is encouraged to determine if the application most replicates that of a “trunk” or “boot” installation, or an installation in an SUV, hatchback, or wagon.

**Vb = Volume of box**  
**Av = Area of vent**  
**Lv = Length of vent**

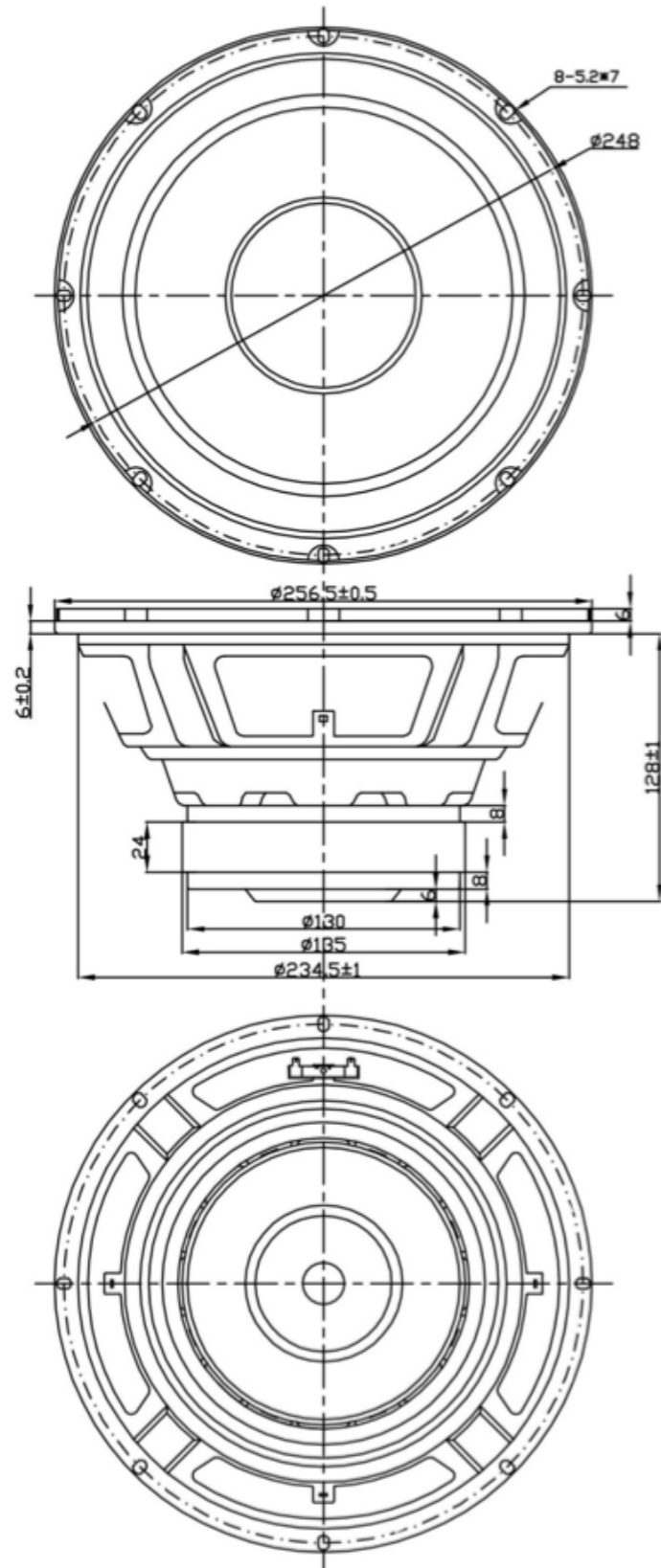
# Imagine I6SW-V2 Mechanical Drawing



# Imagine I8SW Mechanical Drawing



# Imagine I10SW Mechanical Drawing



# Imagine I12SW Mechanical Drawing

