

## ALPHA 12

|                         |                                  |
|-------------------------|----------------------------------|
| Nominal Basket Diameter | 12", 304.8mm                     |
| Impedance               | 8 ohms                           |
| Power Rating            | 150Wrms                          |
| Resonance               | 49Hz                             |
| Usable Frequency Range  | 45Hz - 5kHz                      |
| Sensitivity             | <a href="#">see guide on web</a> |
| Magnet Weight           | 20oz.                            |
| Gap Height              | 0.25", 6.35mm                    |
| Voice Coil Diameter     | 1.5", 38.1mm                     |

### Mounting Information

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Recommended Enclosure Volume (vented) | 71 - 117 liters<br>2.5 - 4.15 cu. ft. |
| Overall Diameter                      | 12.24", 310.9mm                       |
| Baffle Hole Diameter                  | 11.04", 280.4mm                       |
| Front Sealing Gasket                  | <i>fitted as standard</i>             |
| Rear Sealing Gasket                   | <i>fitted as standard</i>             |
| Mounting Holes Diameter               | 0.25", 6.4mm                          |
| Mounting Holes B.C.D.                 | 11.63", 295.3mm                       |
| Depth                                 | 4.725", 120mm                         |
| Shipping Weight                       | 7.1lbs., 3.2 kg.                      |

### Thiele-Small Parameters

|   |                              |
|---|------------------------------|
| Resonant Frequency (fs)                               | 49Hz                         |
| Impedance (Re)  | 6.30 ohms                    |
| Coil Inductance (Le)                                  | 0.79mH                       |
| Electromagnetic Q (Qes)                               | 0.88                         |
| Mechanical Q (Qms)                                    | 6.53                         |
| Total Q (Qts)   | 0.77                         |
| Compliance Equivalent Volume (Vas)                    | 121.5 liters<br>4.29 cu. ft. |
| Peak Diaphragm Displacement Volume (Vd)               | 125cc                        |
| Mechanical Compliance of Suspension (Cms)             | 0.32mm/N                     |
| BL Product (BL)                                       | 8.5 T-M                      |
| Diaphragm Mass inc. Airload (Mms)                     | 33 grams                     |
| Equiv. Resistance of Mechanical Suspension Loss (Rms) | 1.54N*sec/M                  |
| Efficiency Bandwidth Product (EBP)                    | 56                           |
| Voice Coil Overhang (Xmax)                            | 2.4mm                        |
| Surface Area of Cone (Sd)                             | 519.5cm <sup>2</sup>         |
| Impedance at Resonance (Zmax)                         | 53 ohms                      |
| Maximum Linear Excursion (Xmech)                      | 13.21mm                      |

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### Application Notes

Ideal for two-way sound reinforcement systems, keyboard, and guitar combos.

### Materials of Construction

- Kapton coil former for increased rigidity and thermal protection
- Polyamide-imide coated two-layer, 32ga., copper voice coil for improved power handling and durability.
- Ferrite Magnet
- Vented and extended core for increased power handling
- Premium pressed steel basket for maximum strength
- Paper cone
- Cloth cone edge
- Solid composition felt dust cap

