

## BETA 12LT

|                         |                                  |
|-------------------------|----------------------------------|
| Nominal Basket Diameter | 12", 304.8mm                     |
| Impedance               | 8 ohms                           |
| Power Rating            | 225Wrms                          |
| Resonance               | 45Hz                             |
| Usable Frequency Range  | 45Hz - 8kHz                      |
| Sensitivity             | <a href="#">see guide on web</a> |
| Magnet Weight           | 38oz.                            |
| Gap Height              | 0.312", 7.94mm                   |
| Voice Coil Diameter     | 2", 50.8mm                       |

### Mounting Information

|                                       |  |
|---------------------------------------|--|
| Recommended Enclosure Volume (vented) | 64 - 106 liters<br>2.25 - 3.75 cu. ft. |
| Overall Diameter                      | 12.02", 305.2mm                        |
| Baffle Hole Diameter                  | 10.97", 278.6mm                        |
| 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                                 | 4.47", 113.5mm                         |
| Shipping Weight                       | 9.6lbs., 4.4 kg.                       |

### Thiele-Small Parameters

|   |                              |
|---|------------------------------|
| Resonant Frequency (fs)                               | 45Hz                         |
| Impedance (Re)  | 7.37 ohms                    |
| Coil Inductance (Le)                                  | 0.83mH                       |
| Electromagnetic Q (Qes)                               | 0.55                         |
| Mechanical Q (Qms)                                    | 6.44                         |
| Total Q (Qts)   | 0.51                         |
| Compliance Equivalent Volume (Vas)                    | 136.3 liters<br>4.81 cu. ft. |
| Peak Diaphragm Displacement Volume (Vd)               | 42cc                         |
| Mechanical Compliance of Suspension (Cms)             | 0.34mm/N                     |
| BL Product (BL)                                       | 11.7 T-M                     |
| Diaphragm Mass inc. Airload (Mms)                     | 36 grams                     |
| Equiv. Resistance of Mechanical Suspension Loss (Rms) | 1.59N*sec/M                  |
| Efficiency Bandwidth Product (EBP)                    | 83                           |
| Voice Coil Overhang (Xmax)                            | 0.8mm                        |
| Surface Area of Cone (Sd)                             | 532.4cm <sup>2</sup>         |
| Impedance at Resonance (Zmax)                         | 94 ohms                      |
| Maximum Linear Excursion (Xmech)                      | 17.27mm                      |



### Application Notes

A twin-cone model for full range output in compact P.A. systems. The addition of the second cone gives extended high frequency response up to a useful 8kHz.

### 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 core for increased power handling
- Premium pressed steel basket for maximum strength
- Paper cone
- Cloth cone edge
- Solid composition paper dust cap

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