



# AERONS SPEAKER

PROFESSIONAL AUDIO SYSTEM

## 18TBW100

3000W Continuous program power  
 35-1.0KHz Frequency range  
 99.3mm Voice coil  
 96dB Sensitivity  
 Optimized magnet and FEA analyse



### GENERAL SPECIFICATIONS

|                              |           |
|------------------------------|-----------|
| Nominal Diameter             | 18inch    |
| Nominal Impedance            | 8ohm      |
| Program Power                | 3000watts |
| Power Handling               | 1500watts |
| Sensitivity                  | 96dB      |
| Frequency Range              | 35-1.0KHz |
| Effective Diaphragm Diameter | 390 mm    |
| Minimum Impedance            | 5.1ohm    |
| Voice-coil Diameter          | 99.3mm    |
| Voice-coil Material          | copper    |
| Voice-coil Winding Depth     | 32.5 mm   |
| Numbers of layer(s)          | 2         |
| Kind of layer                | IN/Out    |
| Top Plate Thickness          | 15        |
| Magnet Size                  | 220*30mm  |

### THIELE-SMALL PARAMETERS

|                         |      |                     |
|-------------------------|------|---------------------|
| Resonance Frequency     | Fs   | 35 Hz               |
| DC Resistance           | Rte  | 5.1ohm              |
| Mechanical Factor       | Qms  | 12.23               |
| Electrical Factor       | Qes  | 0.495               |
| Total Factor            | Qts  | 0.476               |
| BL Factor               | BL   | 23.87 T-m           |
| Effective Moving Mass   | Mms  | 246.8 gr            |
| Equivalent Cas Air Load | Vas  | 152liters           |
| Effective Piston Area   | Sd   | 1225cm <sup>2</sup> |
| Max. Linear Excursion   | Xmax | 12.5mm              |
| Half Space Efficiency   | Eff  | 1.6%                |

### MOUNTING&SHIPPING INFORMATION

|                      |             |         |
|----------------------|-------------|---------|
| Overall Diameter     | 460/18.11   | mm/inch |
| Bolt Circle Diameter | 445/17.5    | mm/inch |
| Bolt Hole Diameter   | 7.0/0.276   | mm/inch |
| Mount Buffer Cut-out | 424/16.69   | mm/inch |
| Depth                | 239/9.4     | mm/inch |
| Net Weight           | 14.5/31.97  | kg/lbs  |
| Shipping Weight      | 16.7/36.82  | kg/lbs  |
| Shipping Box         | 497*497*255 | mm      |

