

# LF15X401

## WOOFER

### DESCRIPTION

Very linear frequency response characteristics, extreme high power handling while generating the lowest harmonic distortion of any comparable 18-inch transducer within its application range. The LF15X401 uses a fibre loaded cone assembly along with a high excursion triple roll surround. This combination provides remarkable strength and a peak to peak maximum excursion of 50 mm. The new dual forced hyper-venting system guarantee a very efficient voice coil ventilation for minimum power compression and incredible power handling.



### FEATURES

- 4-inch, fiberglass inside/outside copper voice coil
- 3000W continuous program power handling
- 96.5 dB Sensitivity
- 30 Hz - 1.5 kHz Frequency range
- Dual Forced Hyperventing System
- Dual spider design with silicon based dampening control
- Triple-roll surround and corrugated straight cone geometry

## TECHNICAL SPECIFICATIONS

### General specifications

|                               |   |
|-------------------------------|---|
| Nominal Diameter:             | 15 inch / 381 mm                        |
| Rated Impedance:              | 8 ohm                                   |
| Program Power (watt):         | 3000 W                                  |
| Power handling capacity:      | 1500 W                                  |
| Sensitivity:                  | 96.5 dB                                 |
| Frequency range:              | 30 - 1500 Hz                            |
| Effective piston diameter:    | 340 mm / 13.39 inch                     |
| Max. Excursion Before Damage: | 50 mm / 1.97 inch                       |
| Minimum Impedance (ohm):      | 6.5 ohm                                 |
| Voice Coil Diameter:          | 4.0 inch / 102 mm                       |
| Voice Coil Winding Material:  | Copper                                  |
| Voice Coil Length:            | 30 mm / 1.18 inch                       |
| Number of layers:             | 2                                       |
| Kind of layers:               | inside/outside                          |
| Top Plate Thickness:          | 15 mm / 0.59 inch                       |
| Cone Design:                  | Straight                                |
| Surround Material:            | Polycotton                              |
| Surround Design:              | Triple roll                             |
| Magnets:                      | Ceramic                                 |
| Dual-force air ventilation:   | Yes                                     |
| Spider:                       | Dual with silicon based damping control |

### Thiele - small parameters

|                                      |                      |
|--------------------------------------|----------------------|
| Resonance frequency (Fs):            | 34 Hz                |
| DC resistance (Re) (ohm):            | 5.50 ohm             |
| Mechanical factor:                   | 7.60 Qms             |
| Electrical factor:                   | 0.30 Qes             |
| Total factor:                        | 0.29 Qts             |
| Bl factor (Bl) (T x m):              | 26.50 T x m          |
| Effective moving mass (Mms):         | 170.0 g              |
| Equivalent Cas air loaded (Vas):     | 146.0 liters         |
| Effective piston area (Sd):          | 0.090 m <sup>2</sup> |
| Max. linear excursion (Xmax):        | 12 mm                |
| Voice coil inductance @ 1kHz (Le1k): | 1.30 mH              |
| Half-space efficiency (Eff):         | 1.90%                |

### Mounting informations

|                                |                                   |
|--------------------------------|-----------------------------------|
| Overall diameter:              | 393 mm / 15.47 inches             |
| Bolt circle diameter:          | 371-376 mm / 14.61-14.8 inch      |
| Bolt hole diameter:            | 7 mm / 0.28 inch                  |
| Front mount baffle cut-out:    | 354 mm / 13.94 inch               |
| Rear mount baffle cut-out:     | 354 mm / 13.94 inch               |
| Volume occupied by the driver: | 4.3 liters / 0.17 ft <sup>3</sup> |

### Standard compliance

|             |     |
|-------------|-----|
| CE marking: | Yes |
|-------------|-----|



|             |           |                       |
|-------------|-----------|-----------------------|
| <b>Size</b> | Height:   | 161 mm / 6.34 inches  |
|             | Diameter: | 393 mm / 15.47 inches |
|             | Weight:   | 12 kg / 26.46 lbs     |

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|                              |                 |                       |
|------------------------------|-----------------|-----------------------|
| <b>Shipping informations</b> | Package Height: | 209 mm / 8.23 inches  |
|                              | Package Width:  | 439 mm / 17.28 inches |
|                              | Package Depth:  | 434 mm / 17.09 inches |
|                              | Package Weight: | 13.5 kg / 29.76 lbs   |

## **PART NUMBER**

- **11100090**  
LF15X401  
8ohm



