



Peerless

FSL-1530R01-08

PROFESSIONAL WOOFER

Pressed Steel Basket

Paper Diaphragm

Fabric Surround

Ferrite Magnet

High Sensitivity

Technical drawings of the woofer showing top and side views with dimensions.

Top View Dimensions:

- Outer diameter:  $\phi 384.80 \pm 0.70$
- Inner diameter:  $\phi 369 \pm 0.50$
- Mounting hole diameter:  $\phi 20 \pm 0.10$  (8 EQS)
- Mounting hole offset:  $6.20 \pm 0.10$  (8 EQS)

Side View Dimensions:

- Top flange diameter:  $\phi 157.30 \pm 0.50$
- Top flange thickness:  $1.47 \pm 0.50$
- Top flange offset:  $6.30 \pm 0.8T$
- Top flange hole diameter:  $\phi 5.20 \times 0.5T$
- Top flange hole offset:  $1.80$
- Top flange hole diameter:  $\phi 349.95 \pm 0.50$
- Top flange hole offset:  $25$

| SPECIFICATIONS                             |                                   |          |                                    |
|--|-----------------------------------|----------|------------------------------------|
| Transducer Size                            | 15                                | in       |                                    |
| Impedance                                  | 8                                 | $\Omega$ |                                    |
| Frequency Range <sup>1</sup>               | 40 - 400                          | Hz       |                                    |
| Sensitivity <sup>2</sup> (2.83V   1W @ 1m) | 98   98                           | dB       |                                    |
| Power Rating (AES2-1984)                   | 350                               | W        |                                    |
| Voice Coil Size                            | 75.8                              | mm       |                                    |
| Air Gap   Winding Height                   | H <sub>ag</sub>   H <sub>vc</sub> | 8   12   | mm                                 |
| Net Weight                                 | 6.3                               | kg       |                                    |
| PARAMETERS <sup>3</sup>                    |                                   |          |                                    |
| Eff. Piston Area                           | S <sub>d</sub>                    | 866      | cm <sup>2</sup>                    |
| DC Resistance                              | R <sub>e</sub>                    | 5.3      | $\Omega$                           |
| Minimum Impedance                          | Z <sub>min</sub>                  | 6.7      | $\Omega$                           |
| Inductance                                 | L <sub>e</sub>                    | 1.19     | mH                                 |
| Resonance Frequency <sup>4</sup>           | F <sub>s</sub>                    | 41       | Hz                                 |
| Mechanical Q Factor                        | Q <sub>ms</sub>                   | 4.98     | -                                  |
| Electrical Q Factor                        | Q <sub>es</sub>                   | 0.252    | -                                  |
| Total Q Factor                             | Q <sub>ts</sub>                   | 0.24     | -                                  |
| Moving Mass                                | M <sub>ms</sub>                   | 87.4     | g                                  |
| Compliance                                 | C <sub>ms</sub>                   | 170      | $\mu\text{m}/\text{N}$             |
| Equivalent Volume                          | V <sub>as</sub>                   | 180      | L                                  |
| Motor Force Factor                         | Bl                                | 21.8     | Tm                                 |
| Motor Efficiency                           | $\beta$                           | 90.2     | (Bl) <sup>2</sup> / R <sub>e</sub> |
| Linear Excursion <sup>5</sup>              | X <sub>max</sub>                  | 4.67     | mm                                 |
| Max Mechanical Excursion <sup>6</sup>      | X <sub>mech</sub>                 | 19.6     | mm                                 |

Graph showing SPL (dB) @ 2.83V/1m and Impedance (ohms) @ 2.83V vs Frequency (Hz).

Legend: — On Axis — 30 Deg — 60 Deg — Impedance

The graph displays the frequency response of the woofer. The SPL curves (On Axis, 30 Deg, 60 Deg) show a peak around 40 Hz and a roll-off above 1 kHz. The Impedance curve shows a sharp peak at the resonance frequency (Fs) of approximately 41 Hz.

Highcharts.com

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