XXLS
12" Subwoofer


Type Number: 830844

## Features:

This new series of state-of-the-art subwoofers continue to enhance Peerless' reputation for delivering the highest quality components for bass in the world. Called the XXLS - for "Xpanded Extra Long Stroke" - these new audio transducers add even more excursion to the Peerless XLS line, and completely eliminate distortion.
See architecture notes for XXLS Platform


Driver Highlights: Thick Nomex cone, 51 mm voice coil, ALP See Application Notes

Go to Application Notes.
Go to Architecture Notes

## Specs:

## Electrical Data

Nominal impedance
Minimum impedance
Maximum impedance
DC resistance
Voice coil inductance
Capacitor in series with x ohm

## T-S Parameters

Resonance Frequency
Mechanical Q factor
Electrical Q factor
Total Q factor
Force factor
Mechanical resistance
Moving mass
Suspension compliance
Effective cone diameter
Effective piston area
Equivalent volume
Sensitivity (2.83V/1m)
Ratio BL/ $\sqrt{ }(\mathrm{Re})$
Ratio fs/Qts

|  |  |  |
| :--- | :--- | :--- |
| Zn | 4 | ohm |
| Zmin | 3.8 | ohm |
| Zo | 119.4 | ohm |
| Re | 2.8 | ohm |
| Le | 4.2 | mH |
| Cc | -- | uF |
|  |  |  |
| fs | 17.7 | Hz |
| Qms | 8.21 |  |
| Qes | 0.2 |  |
| Qts | 0.2 |  |
| Bl | 15.7 | Tm |
| Rms | 2.11 | $\mathrm{Kg} / \mathrm{s}$ |
| Mms | 155.9 | g |
| Cms | 0.52 | $\mathrm{~mm} / \mathrm{N}$ |
| D | 24.4 | cm |
| Sd | 466 | $\mathrm{~cm}{ }^{2}$ |
| Vas | 156.5 | ltrs |
|  | 90.3 | dB |
|  | 9.3 |  |
| F | 90 |  |

## Power handling

| 100h RMS noise test (IEC) | 175 | W |
| :--- | :--- | :--- |
| Long-term Max Power (IEC 18.3) | 350 | W |
| Max linear SPL (rms) @ power | -- | dB/W |
| Short Term Max power (IEC 18.2) | -- | W |

Voice Coil and Magnet Parameters

| Voice coil diameter | 51 | mm |
| :--- | :--- | :--- |
| Voice coil height | 33 | mm |

Voice coil layers 4
Height of the gap
Linear excursion +/-
8 mm

Max mech. excursion +/- -- mm
Flux density of gap
Total useful flux
Diameter of magnet
Height of magnet
Weight of magnet
12.5 mm
-- mWb
2.3 mWb

147 mm
35 mm
2.4 Kg

Frequency: 830844


Mechanical Dimensions:830844


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