



TL3512

Very-Low-Frequency Speaker System

- The bass pumping ability of DL18W 18-inch woofer and 38-Hz f_t make an ideal subwoofer for contemporary music applications
- Approved for subwoofer use in THX® cinema systems*
- 28-Hz f_t in step-down, ideal for very-low-frequency synthesized effects, down-tuned bass guitars or pipe organ
- Black painted steel grille
- Optional HS6 or HS7 hanging kits—through-the-box steel tubes provide safe suspension

*THX® is a registered trademark of Lucasfilm Ltd.

SPECIFICATIONS

Frequency Response, measured in far field, calculated to one watt at one meter on Axis, Swept One-Third-Octave Pink Noise, Half-Space Anechoic Environment (see Figure 1)

38-3,200 Hz

Low-Frequency 3-dB-Down Point,

Normal:

38 Hz

Step-Down (with equalization):

24 Hz

Half-Space Reference Efficiency:

2.9%

Long-Term Average Power Handling Capacity per EIA Standard RS-426A (see Power Handling Capacity section):

400 watts

Maximum Long-Term Average Mid-Band Acoustic Output:

11.6 watts

Sound Pressure Level at 1 Meter, 1 Watt Input, Anechoic Environment, Band-Limited Pink-Noise Signal,

100-800 Hz:

99 dB

38-125 Hz:

95 dB

Dispersion Angle Included by 6-dB-Down Points on Polar Responses, Indicated One-Third Octave Bands of Pink Noise (see Figure 3),

38-125 Hz Horizontal and Vertical:

360°

400-800 Hz Horizontal:

105° ±5°

400-800 Hz Vertical:

110° ±5°

Directivity Factor $R_v(Q)$, Median over Indicated Range (see Figure 4),

38-125 Hz:

1.0

400-800 Hz:

5.7

Directivity Index D_i , Median over Indicated Range (see Figure 4),

38-125 Hz:

0.0 dB

400-800 Hz:

7.5 dB

Distortion, 0.1 Full Power Input (see Figure 5),

Second Harmonic,

100 Hz:

1.4%

1,000 Hz:

2.4%

Third Harmonic,

100 Hz:

0.4%

1,000 Hz:

1.7%

Distortion, 0.01 Full Power Input (see Figure 6),

Second Harmonic,

100 Hz:

0.4%

1,000 Hz:

0.7%

Third Harmonic,

100 Hz:

0.4%

1,000 Hz:

1.2%

Transducer Complement:

One DL18W

Net Box Volume:

255 liters (9.0 ft³)

Box Tuning Frequency,

Normal:

35 Hz

Step-Down:

25 Hz

Impedance,

Nominal:

8 ohms

Minimum:

8 ohms

Input Connections:

Screw terminals (#10) on barrier strip

Enclosure Materials and Finish:

Black vinyl-clad particle board

Suspension (see Suspending TL3512

Enclosures section):

Two "independently certified" suspension

kits are available: the HS6 and HS7

Dimensions,

Height:

100.3 cm (39.5 in.)

Width:

57.2 cm (22.5 in.)

Depth:

55.9 cm (22.0 in.)

Net Weight:

49.0 kg (108 lb)

Shipping Weight:

54.4 kg (120 lb)

DESCRIPTION

The Electro-Voice TL3512 is an optimally vented, direct-radiator speaker system for high-output reproduction of very-low frequencies. The low-frequency limit of 38 Hz (3 dB down) may be extended to 28 Hz by covering one vent and applying appropriate low-frequency equalization (see Step-Down section). The TL3512's design is based on the vented-enclosure modeling technique of A.N. Thiele and R.H. Small, which makes possible a combination of high efficiency, low distortion and extended low-frequency performance in an enclosure of moderate size.