



# LS-81T



The LS-81T of LDA is a acoustic box, which is compound by a 8" high performance woofer and a 1" tweeter made of Polycarbonate.

This acoustic box has been designed for installations where a high quality and medium power are required.

The enclosure of the box is made of ABS of high quality and reduce weight with a black or white texturized finished in order to cover the IP protection for environmental conditions: IP-54.

The LS-81T included an adjustable U shape bracket for fixing on wall or ceilings.

The connection is realized by a presure connector which is located in the rear side of the box. Besides, it includes a power selector for 70/100V lines and 8Ω.

## Features:

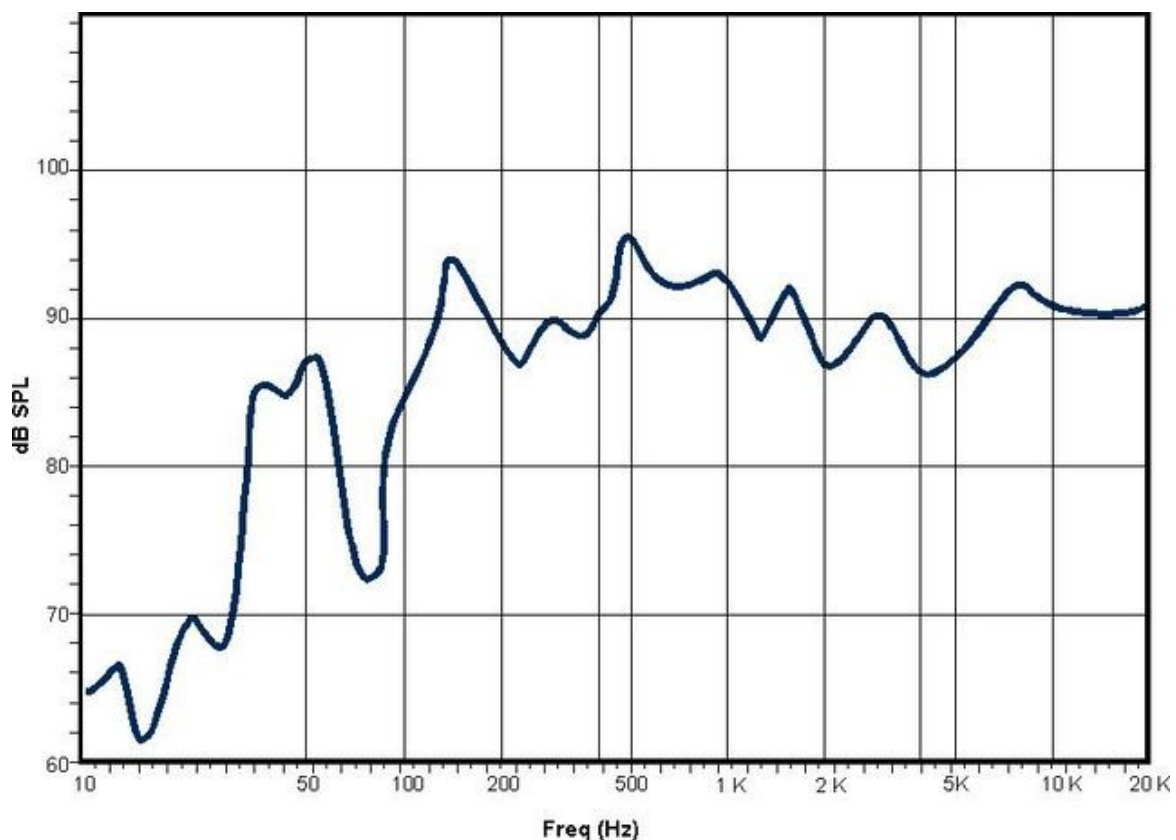
- High quality playback
- Lineal frequency response: 80 – 20,000 Hz (+/- 5 dB)
- Coherent phase response
- Low harmonic distortion
- Power tap selector and low loss transformer ( 70 / 100V / 8Ω)
- Metallic grille: transparent acoustically

TECHNICAL SPECIFICATIONS	
NOMINAL POWER	50 W RMS
FREQUENCY RESPONSE	80Hz- 20kHz (+/- 10dB)
SENSITIVITY	88 dB +/- 3 dB (1W, 1m)
SPEAKER IMPEDANCE	8 Ω
DISPERSION	90° horizontally / 80° vertically
TRANSFORMER	50 / 25 / 12,5 / 6,25 W @ 100V

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TECHNICAL SPECIFICATIONS	
	50 / 25 / 12,5 / 6,25 / 3,12 W @ 70V 8 $\Omega$
CONNECTOR	Pressure connector
DRIVERS	8" woofer and 1" tweeter
BRACKET	U shape metallic adjustable bracket for mounting on wall or ceiling
DIMENSIONS (width x height x depth)	275 x 418 x 255 mm
WEIGHT	6.6 kg

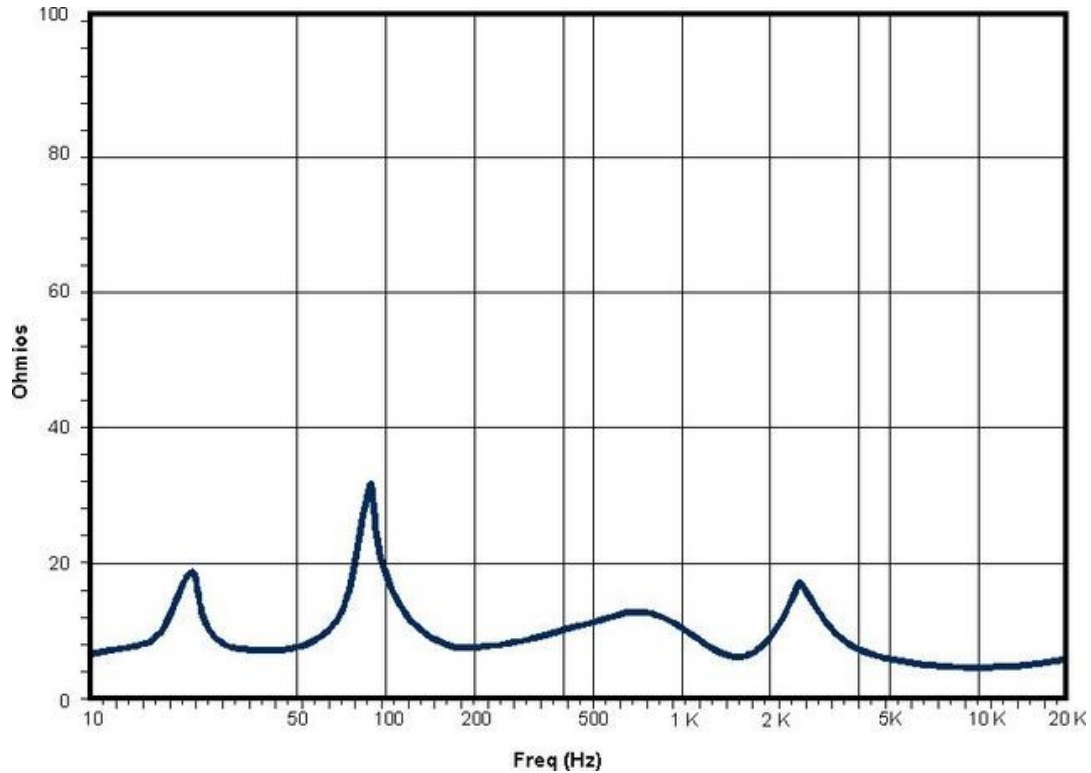
## Frequency response:



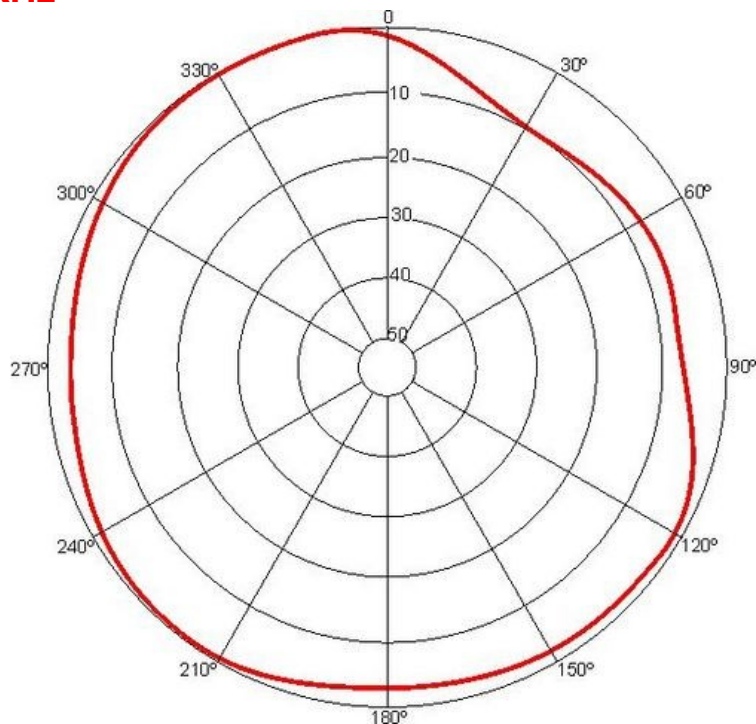
ACOUSTIC BOXES

# LS-81T

Impedance. 8  $\Omega$

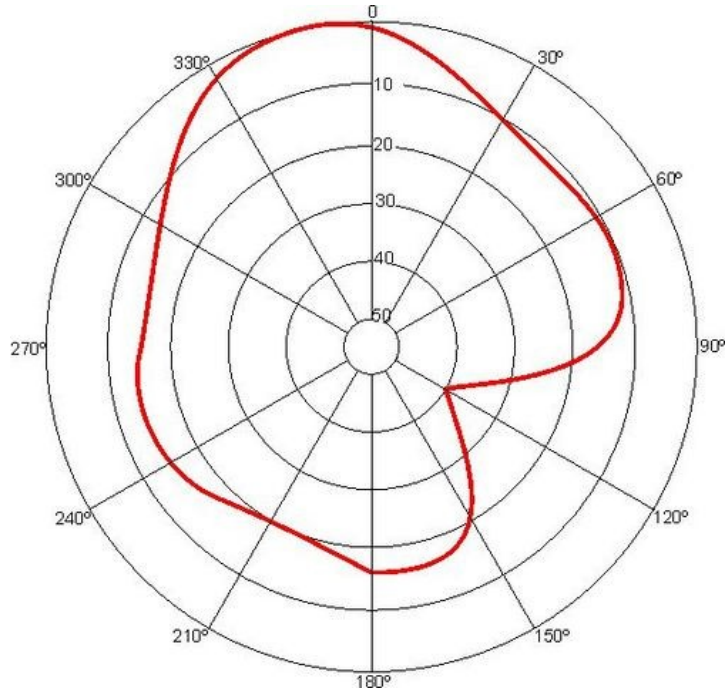


Vertical polar diagram  
Frequency: 1 KHz

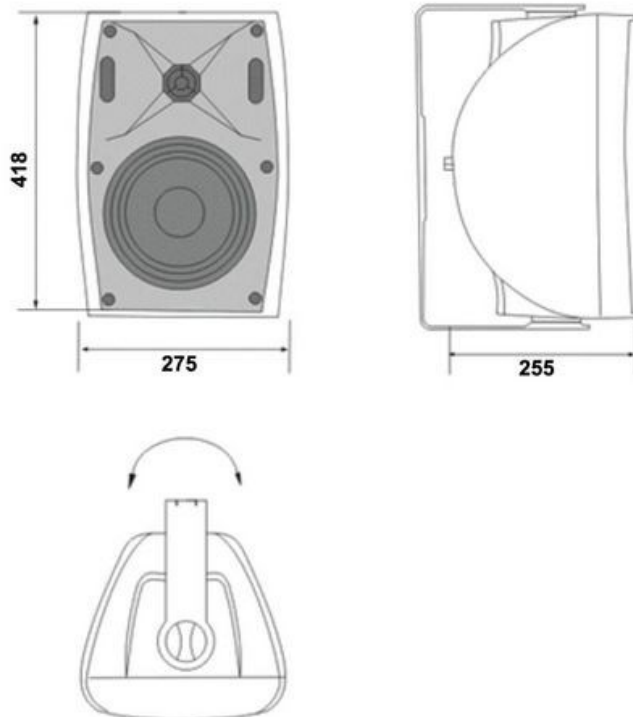


# LS-81T

Horizontal polar diagram:  
Frequency: 1 KHz

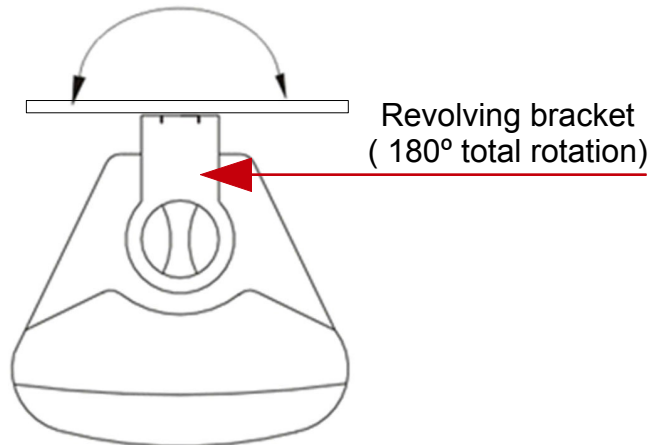


Mechanical Drawings:  
Metric units: mm



**U shape bracket:**

**Mounting horizontally or vertically.**



Horizontal position



Vertical position



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## Power tap selector:

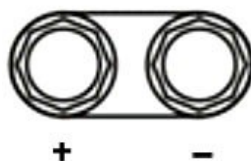
Power taps for 70 / 100 V / 8 Ω lines.



## Banana and Pressure connectors:



Red Black



## SPECIFICATIONS FOR ENGINEERS AND ARCHITECTS

The LS-81T will be compound by a 8" woofer, a 1" tweeter and a crossover filter. It will be connected to a low loss transformer and will have several power taps: 50 / 25 / 12.5 / 6.25 / 3.12 for 70V line and 50 / 25 / 12,5 / 6,25 W for 100V line. It will be connected to 70V / 100V / 8Ω lines. It is recommended to place the acoustic box in vertical position in order to obtain the maximum working functions.

The range of frequencies that it must cover will be comprised between 80Hz and 20 kHz with a 88 dB sensitivity measured to 1W and 1m.

The speaker will be installed horizontally and vertically, where the dispersion will be 90° and 80° respectively. The speaker could be adjustable after mounting into its bracket.

The enclosure will be made in ABS with a metallic grille transparent acoustically.

The available colours will be white (RAL 9003) and Black (RAL 9005).

The shape of the box will be a 1/6 part of a cylinder. It will be provided by an adjustable bracket, which has U shape and could rotate until 180° angle.

All the versions of this product will fulfill the CE marked.

**Warranty:** 2 years

**Product Code:** LDALS81TS02

### Sound Tests:

#### 1. Power:

Pink noise is introduced and amplified trough the whole band width obeying the standar IEC 60268-5. If the maximum power or the speaker is reached, the noise is cut. Then, the speaker is checked. It must not present visible damages or losses of features 100 hours of working.

#### 2. Sensitivity, frequency range and impedance.

It is introduced several sinusoidal impulses which have different frequency to 1W of power level from the nominal impedance of the speaker. The average sound pressure level (dB-SPL) is measured to 1 metre of distance with regard to the

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speaker in a anechoic environment.

ACOUSTIC BOXES