

Lubell LL-1424HP

High-Power Broadband Piezoelectric Underwater transducer for Military and Scientific Applications



Description

The LL-1424HP is a piezoelectric underwater acoustic transducer designed for general purpose military and scientific applications. The LL-1424HP may also be used as an underwater speaker when high power is required.

The LL-1424HP has a useful frequency range of 200Hz-9kHz, a maximum SPL of 197dB re 1uPa @1m at 600Hz w/80V rms applied, and a nominal impedance of 8 ohms. Because of variation between cast parts, the uniformity of response cannot be guaranteed but is typically +/- 1.5dB from published values. The LL1424HP is provided with an AC1424HP bridging transformer box allowing connection to amplifiers up to 2500 watts at 4 ohms bridged mono.

The LL-1424HP is built to withstand ocean environments by virtue of its 10 mil epoxy finish and cage mounting system. The LL-1424HP is fitted with a Seacon bulkhead connector and includes a mating 75 foot Seacon cable.

Specifications

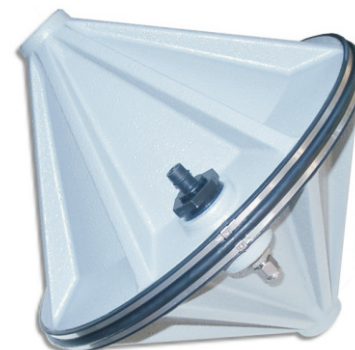
- **Frequency Range:**
200Hz - 9kHz
- **Source Pressure Level (SPL):**
197dB re 1 μ Pa @ 1m at 600Hz (80Vrms applied at cable end)
- **Maximum Voltage:**
80 Vrms
- **Duty Cycle:**
100% (10A) , 50% (14A)
- **Impedance:**
8 ohms nominal (including AC1424HP xfmr box)
- **Depth Rating:**
2m - 12m
- **Dimensions (Cage):**
41.9cm x 41.9cm x 41.9cm
- **Transducer and Cage Weight:**
27.67 kg in air / 14.97 in water
- **Finish (Transducer / Cage):**
10-mil epoxy on MIL-C-5541 Class 1-A / 304SS
- **Connector:**
Seacon XSEE3BCR
- **Cable:**
Seacon XSEE3CCP molded to 22.86m 14/3 SO cable (6.8kg)
- **Included:**
AC1424HP bridging xfmr box



Lubell AC1424HP
12.5"L X 7.125"W X 7.250"H, 15 lbs.

Applications

- Underwater Acoustics Research
- Military Applications
- High Power Underwater Speaker
- Acoustic Field Calibration



MarSensing Lda is a distributor of Lubell Labs Underwater Transducers for Portugal, Spain, Gibraltar and Angola