DESCRIPTION: Re-entrant metal horn with high efficiency 30W compression driver for clear voice paging and tone signaling in indoor or outdoor applications is ideal for use where a weather-resistant horn is specified for public address/signaling applications that require high intelligibility such as in schools, recreational facilities, warehouses, distribution centers, parking facilities, and commercial buildings. Ships ready for installation.

FEATURES:
- **Application:** Clear, loud voice paging and tone signaling in 25V, 70V or 100V systems.
- **Driver:** High efficiency 30W compression driver
- **Transformer:** High quality transformer with screwdriver-selectable taps. The tap selector and screw terminal connections are located in a recessed area in the rear with an integral strain relief and protective plastic cover.
- **Assembly:** Weather-resistant assembly (10.37" diameter x 10.63"D), suitable for indoor or outdoor use, features all-metal construction with a durable beige epoxy finish for long service life. The assembly has a universal swivel mounting bracket for precise positioning. The base of the mounting bracket (2.875" diameter) features three equally spaced holes (.28" diameter).
- **Hook-up:** Easy two-wire hook-up to rear access screw terminals.
- **Frequency Range:** Operates within a frequency range of 411Hz-4.0kHz (±6dB) with a sensitivity of 118.1dB log average (1W/1M) 132.9dB maximum SPL (calculated based on power rating and measured sensitivity).
- **Operating Temperature Range:** -40°F to 158°F (-40°C to 70°C)
- **Assembly Weight:** 4.85 lbs.
- **IP66 Rating Option:** Order one of the wiring compartment covers for IP66 rating (IEC 60529) for water- and dust-resistant operation.
- **Country of Origin:** Taiwan

A&E SPECIFICATIONS: The horn shall be Lowell model LH-30TA, which shall be a re-entrant design with a high efficiency 30W compression driver, round bell and universal swivel-style base. Power rating shall be 30 watts continuous. Frequency response shall be 411Hz-4.0kHz (±6dB) with a sensitivity of 118.1 log average (1W/1M) 132.9dB maximum SPL (calculated based on power rating and measured sensitivity). Dispersion shall be 40 degrees conical (2kHz Octave Band). Impedance shall be 2500, 1300, 670, 330, 169, 90, 45 ohms. Horn shall include a 25/70/100V transformer with screwdriver selectable taps. Taps for 25V use shall be: .25, .48, .93, 1.9, 3.7, 6.9 and 13.9 W. Taps for 70V use shall be: 2, 3.8, 7.5, 15, and 30W. Taps for 100V use shall be: 4, 7.7, 15, and 30W. Transformer connections shall be protected by a plastic cover with strain relief. The horn assembly shall measure 10.37" dia. x 10.63" deep and shall be weather-resistant metal construction with all metal parts painted in corrosion resistant beige epoxy.

OPTIONAL (order separately): Wiring compartment covers enable the horn to be IP66 rated (IEC 60529) for water- and dust-resistant operation. **Note:** Do not suspend horn by wiring compartment cover—horn must be mounted using the (included) mounting bracket.

- **LHA-30C — for conduit attachment:** Wiring compartment cover threaded conduit fitting 1/2"–14 NPT. Measures 3.28" x 1.73" x 1.09" from gasket to conduit entry. (.2 lbs.)
- **LHA-30G — for input with cable:** Wiring compartment cover waterproof grommet strain relief. Measures 3.28" x 1.73" x 2.11" from gasket to wire entry. (.25 lbs.)
Performance:
Power Handling, Nominal . . . . 30 watts RMS (nominal) measured per EIA Standard RS 426-B
Sensitivity . . . . . . . . . . . . . 118.1dB log average (1W/1M)
132.9dB maximum SPL (calculated based on power rating and measured sensitivity)
Frequency Response. . . . . . . 411Hz-4.0kHz (±6dB)
Dispersion Angle. . . . . . . . . . 40° conical (2kHz Octave Band)
Impedance . . . . . . . . . . . . . 2500, 1300, 670, 330, 169, 90, 45 ohms
Transformer Taps . . . . . . . Screwdriver adjustable: 25V @ .25, .48, .93, 1.9, 3.7, 6.9, 13.9W
70V @ 2, 3.8, 7.5, 15, 30W
100V @ 4, 7.7, 15, 30W
Connections . . . . . . . . . . . Screw terminals with provisions for strain relief. Protected by a plastic cover affixed by 2 screws.

Physical:
Dimensions . . . . . . . . . . . . . 10.37" (263.4mm) dia. x 10.63" (270.01mm) deep
Housing Material. . . . . . . . . . Aluminum with ABS plastic terminal cover
Mounting Base . . . . . . . . . . . 2.875" (73mm) dia. with three equally spaced .28" (7.1mm) dia. holes.
Mounting Bolt Circle . . . . . . . 2.25" (57mm) dia.
Net Weight . . . . . . . . . . . . . 4.85 lbs. (2.2kg)
Shipping Weight . . . . . . . . . 5.90 lbs. (2.7kg)

SPL vs. Frequency 1W/1M:
Low Frequency Protection: The LH-30TA is not designed to operate below 300Hz. Head-end processing equipment should include a 300Hz high-pass filter with a roll-off of 6dB per octave to limit the low frequency input to the horn. If head-end processing is not available, an alternate method of providing low frequency protection for the horn driver is to insert one non-polarized series capacitor at the high side input [terminal 2 (+)] of each horn.

Typical Protection Capacitor Values:

<table>
<thead>
<tr>
<th>Model No.</th>
<th>25 Volt Line</th>
<th>70 Volt Line</th>
<th>100 Volt Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>LH-30TA</td>
<td>30 mfd</td>
<td>4 mfd</td>
<td>12 mfd</td>
</tr>
</tbody>
</table>

Polar Data:
Connections:
A terminal for two-wire connection is located on the rear of the horn in a recessed area with integral strain relief and protective plastic cover.
Be sure to observe polarity (“−” to terminal 1 and “+” to terminal 2).

Mounting Bolt Pattern:

LH & LHA Series (Paging Horns & Accessories)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Measurements</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LH-15TA</td>
<td>Re-entrant Horn w/15W driver</td>
<td>8.94” diameter x 9.38”D</td>
<td>3.55 lbs.</td>
</tr>
<tr>
<td>LH-30TA</td>
<td>Re-entrant Horn w/30W driver</td>
<td>10.37” diameter x 10.63”D</td>
<td>4.85 lbs.</td>
</tr>
</tbody>
</table>

Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurements</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHA-15C Wiring Compartment Cover for 15W Horn – Conduit</td>
<td>2.9” x 1.58” x 1.09” (gasket to conduit entry)</td>
<td>.20 lbs.</td>
</tr>
<tr>
<td>LHA-15G Wiring Compartment Cover for 15W Horn – Cable</td>
<td>2.9” x 1.58” x 2.11” (gasket to wire entry)</td>
<td>.25 lbs.</td>
</tr>
<tr>
<td>LHA-30C Wiring Compartment Cover for 30W Horn – Conduit</td>
<td>3.28” x 1.73” x 1.09” (gasket to conduit entry)</td>
<td>.20 lbs.</td>
</tr>
<tr>
<td>LHA-30G Wiring Compartment Cover for 30W Horn – Cable</td>
<td>3.28” x 1.73” x 2.11” (gasket to wire entry)</td>
<td>.25 lbs.</td>
</tr>
</tbody>
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