303-670-1099

Model No.

LH-15TA 15W Re-entrant Horn

Includes transformer

Double re-entrant metal horn with high efficiency 15W 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 (e.g. schools, recreational facilities, warehouses, distribution centers, parking facilities, commercial buildings). It operates within a frequency range of 537Hz-4.5kHz (±6dB) with a sensitivity of 112.2dB log average (1W/1M) 124.0dB maximum SPL (calculated based on power rating and measured sensitivity). Horn includes a high quality transformer for use in 25V, 70V or 100V distributed applications; taps are selected with a screwdriver. Tap selector and screw terminal connections are located on rear, in a recessed area with integral strain relief and protective plastic cover. Horn mounts with universal swivel bracket for efficient installation and positioning. Mounting bracket base measures 2.875" dia. with 3 equally spaced holes (.28" dia.). Horn assembly measures 8.94" dia. x 9.38"D and features all-metal construction with durable beige epoxy finish for long service life.



- Clear, loud paging and tone signaling.
- Versatile application in 25V, 70V or 100V systems with built-in transformer (screwdriver adjustable).
- Weather-resistant assembly suitable for indoor or outdoor use.
- Universal swivel mounting bracket for easy installation and precise adjustment of orientation.
- · Easy 2-wire hook-up to rear access screw terminals.
- Operating temperature range: -40°F (-40°C) to 158°F (70°C)
- Assembly weighs 3.55 lbs.
- · Ships ready for installation.
- IP66 rated (IEC 60529) for water-resistant and dust-resistant operation when optional wiring compartment covers (LHA-15G or LHA-15C) are used.

Options for IP66 Rating:

- LHA-15C: Wiring compartment cover threaded conduit fitting ¹/2"-14 NPT (for conduit attachment)
- LHA-15G: Wiring compartment cover waterproof grommet strain relief (for input with a cable)



Optional wiring compartment covers for IP66 rating (order separately)



A&E Specifications:

The horn shall be AVLELEC Model LH-15TA, which shall be a double re-entrant design with a high efficiency 15W compression driver, round bell and universal swivel-style base. Power rating shall be 15 watts continuous. Frequency response shall be 537Hz-4.5kHz (±6dB) with a sensitivity of 112.2dB log average (1W/1M) 124.0dB maximum SPL (calculated based on power rating and measured sensitivity). Dispersion shall be 50 degrees conical (2kHz Octave Band). Impedance shall be 5000, 2500, 1300, 670, 330, 90, 45 ohms. Horn shall include a 25/70/100V transformer with screwdriver selectable taps. Taps for 25V use shall be: .13, .25, .48, .93, 1.9, 6.9, and 13.9W. Taps for 70V use shall be: 1, 2, 3.8, 7.5, and 15W. Taps for 100V use shall be: 2, 4, 7.7 and 15W. Transformer connections shall be protected by a plastic cover with strain relief. The horn assembly shall measure 8.94" dia. x 9.38" deep and shall be weather-resistant metal construction painted in cor-rosion-resistant beige epoxy.

NOTE: Do not suspend horn by an optional wiring compartment cover. Horn must be mounted using the (included) universal mounting bracket.

Model Numbers

Model No.	Description	Size	Weight
LH-15TA	15W re-entrant horn	8.94" dia. x 9.38" deep	3.55 lbs.
LHA-15C	Wiring compartment cover	2.9" x 1.58" x 1.09" (from gasket to conduit entry)	0.20 lbs.
LHA-15G	Wiring compartment cover	2.9" x 1.58" x 2.11" (from gasket to wire entry)	0.25 lbs.



ww.ENTRAPASS.com www.TURNSTILES.us 8641 S. Warhawk Rd, Conifer, CO 80421 303-670-1099

www.AVLELEC.com

PERFORMANCE

Power Handling, Nominal 15 watts RMS (nominal) measured per EIA Standard RS 426-B

Sensitivity 112.2dB log average (1W/1M)

124.0dB maximum SPL (calculated based on power rating and measured sensitivity)

Frequency Response 537Hz-4.5kHz (±6dB)
Dispersion Angle 50° conical (2kHz Octave Band)

Impedance 5000, 2500, 1300, 670, 330, 90, 45 ohms

Transformer Taps Screwdriver adjustable: 25V @ .13, .25, .48, .93, 1.9, 6.9, 13.9W

70V @ 1, 2, 3.8, 7.5, 15W 100V @ 2, 4, 7.7, 15W

Connections Screw terminals with provisions for strain relief. Protected by a plastic cover affixed by 2 screws.

PHYSICAL

Dimensions 8.94" (227.14mm) dia. x 9.38" (238.46mm) deep Housing Material Aluminum with ABS plastic terminal cover

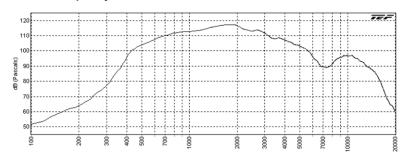
Mounting Base 2.875" (73mm) dia. with three equally spaced .28" (7.1mm) dia. holes.

Mounting Bolt Circle 2.25" (57mm) dia.

Net Weight 3.55 lbs. (1.6kg)

Shipping Weight 4.55 lbs. (2.1kg)

SPL vs. Frequency 1W/1M

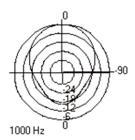


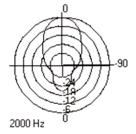
Low Frequency Protection: The LH-15TA is not designed to operate below 300 Hz. Head-end processing equipment should include a 300 Hz high-pass filter with a roll-off of 6dB per octave to limit the low frequency input to the horn. If head-end processing is not available, an alternate method of providing low frequency protection for the horn driver is to insert one non-polarized series capacitor at high side input [terminal 2 (+)] of each horn.

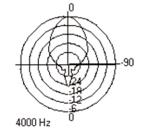
Typical protection capacitor values

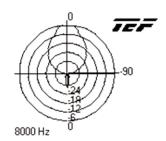
Model No.	25 Volt Line	70 Volt Line	100 Volt Line
LH-15TA	15 mfd	2 mfd	1 mfd

Polar Data:









Connections:



A terminal for 2-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).

Transformer Settings:

Switch Position	Impedance	Watts @ 25V	Watts @ 70V	Watts @100V
1	5000	.13	1	2
2	2500	.25	2	4
3	1300	.48	3.8	7.7
4	670	.93	7.5	15
5	330	1.9	15	DO NOT USE *
6	90	6.9	DO NOT USE *	DO NOT USE *
7	45	13.9	DO NOT USE *	DO NOT USE *

^{*} IMPORTANT: Note that switch positions 6 and 7 are not used on 70V applications; and positions 5, 6, and 7 are not used on 100V applications. They exceed the capacity of the driver and transformer and could damage or destroy the driver and/or amplifier.