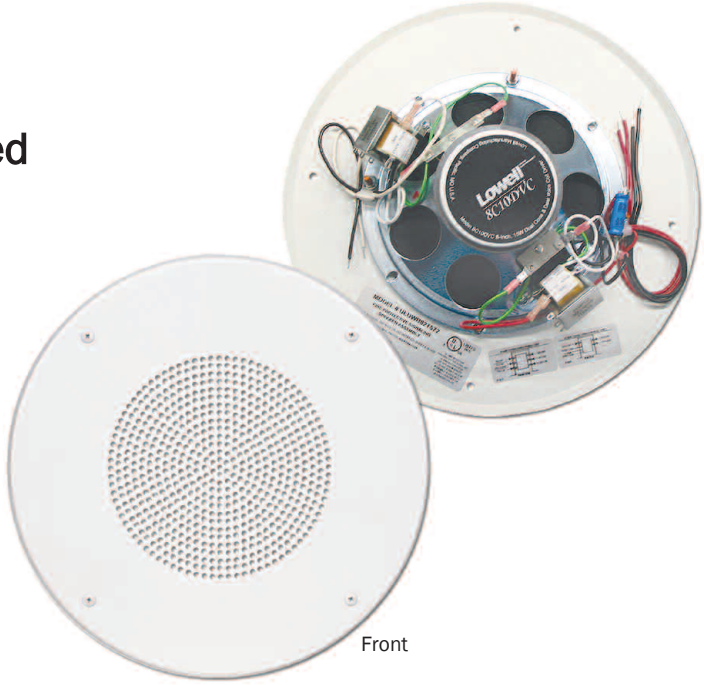
Model No.
ULD-WB8-2T572
8" Speaker Assembly

- Includes driver, 2 transformers, grille
- UL Listed for Fire Protective Signaling when used with approved backbox (order separately)



Front

Assembly with 8" dual voice coil driver is engineered to meet UL Standard 1480 (5th ed.) to provide clear signal reproduction for indoor alarm evacuation/voice communication in fire alarm/emer-gency warning systems or general voice communication for other applications. It must be used with compatible control equipment and the approved backbox to maintain UL Listings (see pg. 2, order separately).

Features:

- Meets NFPA 72A, UL Standard 1480 5th edition (for fire protec-tive signaling systems), and UL 2043 (for use in plenum spaces) when used with approved backbox (order separately).**
- Delivers excellent sensitivity per UL's measurement standard of 2W @10ft. This recognized standard assures emergency com-munications can be heard and understood.
- 15W power rating reproduces emergency alarm and voice instructions with high efficiency and clear intelligibility.
- 8" dual voice coil driver has two (2) wired dual voltage (70/25V) transformers with 1/4, 1/2, 1, 2, 5W power tap lugs and parallel input leads. DC blocking capacitor on one input.
- Includes round screw-mount grille (12.875" dia.) with white powder epoxy finish.
- Ships ready for installation to approved backbox (required to maintain UL Listings – order separately).

A&E Specifications

The fire-protective speaker assembly shall be AVLELEC Model No. ULD-WB8-2T572. The driver shall be 8" with a dual voice coil and include two factory-mounted dual voltage (70/25V) transformers with 1/4, 1/2, 1, 2, 5W power tap lugs and parallel input leads. The driver shall have a 15-watt power rating and sensitivity of 93dB Avg (1W/1M). The assembly shall include a DC blocking capacitor and factory-mounted round steel grille with 12.875" diameter and white powder epoxy finish.

It shall mount to AVLELEC backbox Model No. _____ which is required to maintain UL Listings (ordered separately).

Model No. Summary

Model No.	*Driver*	*Transformer*	*DC Blkg. Capacitor*	*Grille*	*Approved Backbox * (not included – order separately)*
ULD-WB8-2T572	8" dual voice coil	70V / 25V (2)	10 mfd @ 160V	12.875" diameter	CP84 or XCP84-S

** An approved backbox is required to maintain UL Listings – order separately.*

Application Note

Dual voice coil speakers should not be used when one voice coil is fed from a local (or zoned) sound system. For example, an appli-cation where a dual voice coil speaker is installed in a classroom with one voice coil connected to the school's all-call paging system and the other voice coil connected to a local sound system that is used only in that classroom. When the local sound system is play-ing, the all-call voice coil will also be traveling across the speaker's magnet which induces a small cross-talk voltage on the all-call speaker line. In the speakers in all other classrooms that are connected to the all-call speaker line, this will result in the audio from the local classroom sound system being heard softly. Only use dual voice-coil speakers when all of the speakers on the line are fed by the same two all-call amplifier systems.

Driver Specs

Model	*Size*	*Cone Type*	*Ceramic Magnet*	*V.C. Impedance*	*V.C. Dia.*	*Power Rating*	*Sensitivity 1W / 1M **	*Depth w xfmr*
ULD Series	8"	single cone	10 oz.	8 ohms ea.	1"	15W RMS	93dB Avg	2.75"

**UL dBA rating at 10 ft: 70.7V input 1W: 82.4 dBA, 25V input 1W: 82.3 dBA*

Transformer Specs*

Voltage	*Power Rating*	*Primary Taps*	*Secondary Impedance*	*Core Size*	*Insertion Loss*	*DC Blocking Capacitor*
70V / 25V	5 Watts	1/4, 1/2, 1, 2, 5W	8 ohms	1/2" x 1/2"	< 1	10 mfd @ 160V

** ULD Series assembly includes two transformers.*

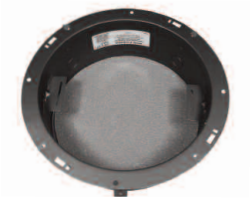
Assembly Specs

Model No.	*Transformer (2 per assembly)*	*DC Blkg. Capacitor*	*Grille*	*Backbox (not included)**	*UL Tested Response w grille & backbox****	*Dispersion with grille 2kHz - 6dB*
ULD-WB8-2T572	70V / 25V	10 mfd @ 160V	12.875" diameter	CP84 or XCP84-S	60Hz-10kHz ± 10dB	100 degrees

** Order approved* ***AVLELEC*** *backbox separately (required to maintain UL Listing) *** Actual response exceeds that tested by UL.*

Approved Backboxes (required to maintain UL Listings, order separately)

Model No. CP84
- Recessed steel backbox with extended lip
- 11.938" dia.
- 4.063" deep
- Black finish
- Mounts Grille WB-8 that is used in ULD assembly



Model No. XCP84-S
- Recessed steel backbox with flat flange and straps
- 10.063" dia.
- 4.063" deep
- Black finish
- Mounts Grille WB-8 that is used in ULD assembly