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## Model No. **CT830A-T870** **8" Coaxial Speaker with Transformer**

High performance 8" 20W coaxial speaker with mounted transformer for quality paging and background music.

### Construction & Features

- High frequency speaker with first order high pass filter, ceramic magnets (12 oz. LF, 2.1 oz. HF) and permanently aligned voice coils (1" LF; 0.563" HF). 20-ga. stamped steel frame with zinc plated finish.
- Mounted and wired 70V transformer (No. TLM-870) has primary taps at 1, 2, 4, 8W
- Meets or exceeds all applicable EIA standards

### A&E Specifications

The 8" speaker with mounted transformer shall be Lowell Model No. CT830A-T870 which shall be of the coaxial type having electrically independent high and low frequency transducers and power rating of 20 watts RMS. The low frequency section shall have an 8" diameter cone; the high frequency section shall have a 3" dia. cone. A built-in electrical crossover network shall be employed to accomplish proper frequency selection between the two drivers. Crossover frequency shall be at 4000Hz. The low frequency voice coil shall have a 1" dia. and operate in a magnetic field derived from a strontium ferrite (ceramic) magnet with nominal weight of 12 oz. The high frequency voice coil shall have a 0.57" dia. and operate in a magnetic field derived from a strontium ferrite (ceramic) magnet with nominal weight of 2.1 oz. Voice coil impedance shall be 8ohms. The speaker shall have a structurally reinforced, stamped 20-ga. steel frame with 8.062" overall dia. and eight obround holes equally spaced at 45 degrees on a 7.625" dia. mounting bolt circle. External metal parts shall be zinc-plated to resist



rust and corrosion. The speaker shall have a mounted transformer with primary taps at 1, 2, 4, 8W @70V. The assembly shall be capable of producing a uniform audible frequency response over the range 53Hz-14.3kHz ( $\pm 6$ dB); 44Hz-20kHz ( $\pm 7.1$ dB) with dispersion angle of 80 degrees @2000Hz (-6dB). Average sensitivity shall measure 97.1dB (SPL at 1W/1M). Assembly mounting depth shall not exceed 3.3".

### Driver + Transformer Specifications

Driver + Xfmr. No's.	Driver Type & Power Rating	Driver Magnet Weight	Transformer Taps	Assembly Frequency Response	Assembly Dispersion @2000Hz Octave	Assembly Sensitivity	Assembly Mtg. Depth*	Max SPL **
CT830A + TLM-870	coaxial 8ohm 20W	12 oz. (woofer) 2.1 oz. (tweeter)	1, 2, 4, 8W @70V	53Hz-14.3kHz ( $\pm 6$ dB) 44Hz-20kHz ( $\pm 7.1$ dB)	80 degrees conical (-6dB)	97.1dB Avg SPL	3.30"	106.1dB

\* Minimum depth required for assembly to be rear-mounted to grille in an enclosure.

\*\* Calculated based on 8W maximum transformer power tap and measured sensitivity.

Additional information available on specification sheet for Driver No. CT830A.