

# LCS8+T PCS8+T

## 8" Twin-Cone Speaker Packages



# 1

### ■ FEATURES

- Stylish Grilles with Reduced Hardware
- Choose Heavy-gauge Steel or Molded ABS Baffle
- Twin-Cone Speaker for Good High-Frequency Dispersion
- Dual 70.7/25-volt Xfrmr with Spade-lug Taps for Fast/ Convenient Changes

### ■ DESCRIPTION

Models LCS8+T and PCS8+T from Penton Audio USA are 15-watt, twin-cone, 8" full-range speaker packages complete with grille and dual 70.7/25-volt transformers. Both have 10-ounce ceramic magnets that provide enhanced low-frequency response and greater efficiency. The PCS cone is also treated to withstand exposure to moisture.

The attractive PCS grille is molded ABS protected by UV inhibitors and has real eye appeal. Visually identical, the LCS features a heavy-gauge steel grille equipped with metal studs thereby showing only 4 visible mounting screws. Both are finished in non-reflecting ceiling white.

Each installs easily using the BBX8B steel backbox and BRG-8B tile bridge. LCS8+T and PCS8+T models are shipped with four 1-1/2" whitePhillips-head screws.

### ■ APPLICATION

Since the PCS grille is made of molded ABS, it is well suited for moist outdoor environments, whereas the steel LCS grille is the choice for indoor. Known for dependability and reliability, their 10-ounce magnets have become an industry standard.

The multi-functional LCS8+T and PCS8+T are well suited to meet a wide range of project requirements. Both are equally effective for music or voice transmission and signal reproduction. They are used in commercial, industrial and institutional applications. Applications include ceiling installation for offices, restaurants, banks, hotel/motels schools and wherever precise transmission of audio is required.



### ■ SPECIFICATIONS

<ul style="list-style-type: none"> <li>• <b>CONE SPEAKER SIZE:</b> 8" (203 mm)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>70.7-VOLT TRANSFORMER TAPS:</b> 5, 2, 1, 0.5, 0.25</li> </ul>
<ul style="list-style-type: none"> <li>• <b>FREQUENCY RESPONSE (SEE FIG 1):</b> 60-20,000 Hz <math>\pm</math> 6 dB</li> </ul>	<ul style="list-style-type: none"> <li>• <b>70.7-VOLT TRANSFORMER IMPEDANCE:</b> 1K, 2.5K, 5K, 10K, 20K</li> </ul>
<ul style="list-style-type: none"> <li>• <b>POWER HANDLING (RAW DRIVER):</b> 15 watts</li> </ul>	<ul style="list-style-type: none"> <li>• <b>25-VOLT TRANSFORMER TAPS:</b> 5, 2, 1, 0.625, 0.25</li> </ul>
<ul style="list-style-type: none"> <li>• <b>SPL @ 1w 1m:</b> 96 dB</li> </ul>	<ul style="list-style-type: none"> <li>• <b>25-VOLT TRANSFORMER IMPEDANCE:</b> 125, 312, 625, 1K, 2.5K</li> </ul>
<ul style="list-style-type: none"> <li>• <b>DISPERSION @ 2 kHz (6 dB Down):</b> 100°</li> </ul>	<ul style="list-style-type: none"> <li>• <b>SUPPLIED MOUNTING ACCESSORIES:</b> 4 ea. 1-1/2" Phillips-head Screws</li> </ul>
<ul style="list-style-type: none"> <li>• <b>DIRECTIVITY Q FACTOR @ 2 kHz:</b> 6.90</li> </ul>	<ul style="list-style-type: none"> <li>• <b>BAFFLE MATERIAL</b> LCS8+T: Steel PCS8+T: Molded ABS with Molded-in UV Inhibitor</li> </ul>
<ul style="list-style-type: none"> <li>• <b>CONE DESIGN:</b> Twin Cone</li> </ul>	<ul style="list-style-type: none"> <li>• <b>FINISH</b> LCS8+T: Non-reflective White Powder-Coated Epoxy Paint PCS8+T: Non-reflective White</li> </ul>
<ul style="list-style-type: none"> <li>• <b>CONE MATERIAL:</b> LCS8T: Paper PCS8T: Treated Paper</li> </ul>	<ul style="list-style-type: none"> <li>• <b>SUGGESTED MOUNTING ACCESSORIES:</b> BBX8B Steel Backbox BRG8 Tile Bridge MBK8 Mounting Bracket</li> </ul>
<ul style="list-style-type: none"> <li>• <b>MAGNET WEIGHT:</b> 10 oz</li> </ul>	<ul style="list-style-type: none"> <li>• <b>DIMENSIONS, INCH (MM):</b> 12.60 x 3.15 (321 x 80)</li> </ul>
<ul style="list-style-type: none"> <li>• <b>TRANSFORMER MAX INSERTION LOSS:</b> 1.5 dB</li> </ul>	<ul style="list-style-type: none"> <li>• <b>NET WEIGHT LBS (KGS):</b> 2.58 (1.17)</li> </ul>
<ul style="list-style-type: none"> <li>• <b>TRANSFORMER TAP CHANGE:</b> Movable Spade Lug</li> </ul>	
<ul style="list-style-type: none"> <li>• <b>CONNECTION:</b> Via Wire Nuts</li> </ul>	
<ul style="list-style-type: none"> <li>• <b>APPROVALS:</b> CE</li> </ul>	

# LCS8+T

# PCS8+T

## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS:

Unit shall be Penton Audio USA Model (LCS8+T/PCS8+T) or approved equal. Assembly shall be comprised of an 8" twin-cone loudspeaker with 10-ounce magnet, factory-mounted, 70.7/25-volt transformer and grille.

(LCS8+T - Grille shall be heavy-gauge steel, finished in white baked-on epoxy powder-coat paint.)

(PCS8+T - Speaker cone shall be treated for moisture resistance. Grille shall be aesthetically pleasing and constructed of molded high-impact ABS with UV inhibitors used throughout.)

Loudspeaker shall have wide-angle sound distribution with a minimum of 100° dispersion. Treated paper cone shall be damped, high-compliance type with smooth extended response over a range of 60-20,000 Hz. Sensitivity shall be a minimum of 96 dB @ 1 watt, 1 meter.

Model shall have a factory installed 70.7/25-volt transformer with power taps of 5, 2, 1, 0.5 and 0.25 watts. Insertion loss shall not exceed 1.5 dB.

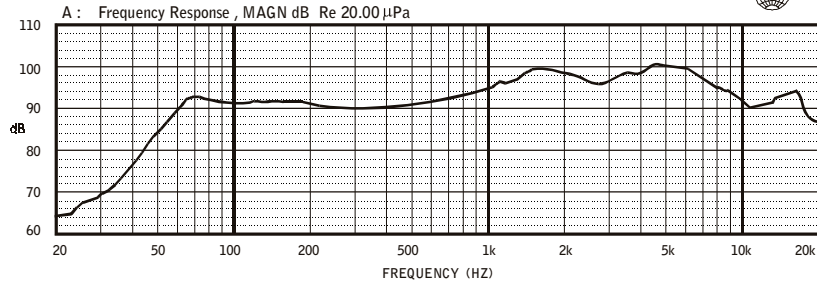


Fig 1: Frequency Response (Measured in Infinite Baffle)

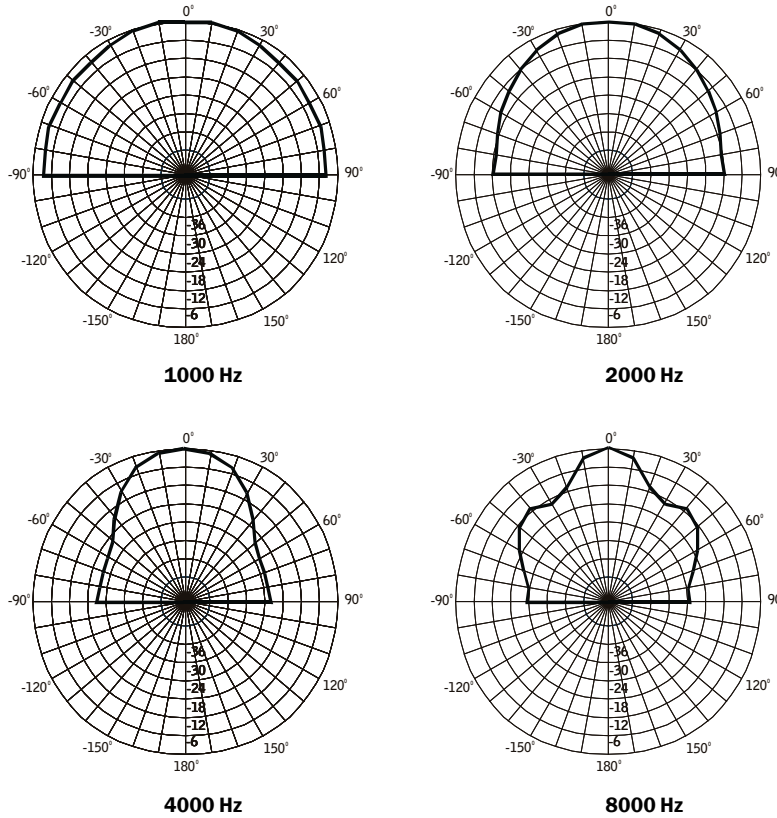


Fig 2: Polar Patterns

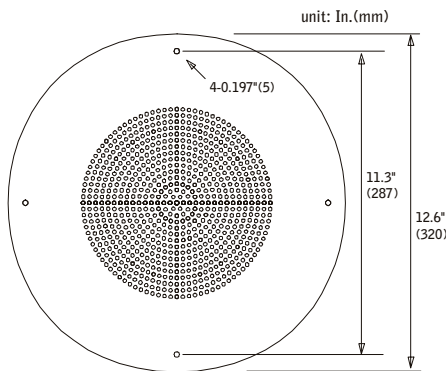


Fig 3: Front View

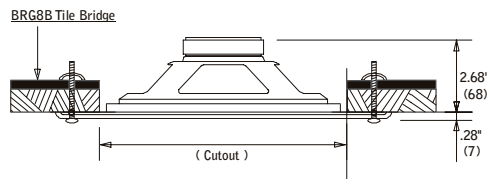


Fig 4: Side View

Watt	25V	70.7V
PIN8	----	0.25
PIN7	----	0.5
PIN6	----	1
PIN5	0.25	2
PIN4	0.5	5
PIN3	1	----
PIN2	2	----
PIN1	5	----
Black	COMMON	

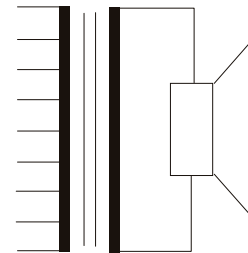


Fig 5: Circuit Diagram

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Specifications subject to change without notice

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