

LCS8T PCS8T

8" Twin-Cone Speaker Packages



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■ 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

The Penton Audio LCS8T and PCS8T are twin-cone, 8", 10-watt, full-range speaker packages shipped with an attached grille and premounted 70.7/ 25-volt transformer.

Made of high-strength ABS, the PCS has the most eye appeal of any molded grille on the market and has a moisture-resistant cone. Visually identical, the LCS features a premium, heavy-gauge steel grille with metal studs that shows only 4 visible surface screwheads. Both models are finished in non-reflecting ceiling white.

Both offer long-term reliability and even coverage for distributed audio. Each installs easily using the BBX8B steel backbox and BRG8B tile bridge. The LCS8T and PCS8T models are shipped with four white, 1-1/2" Phillips-head screws.

■ APPLICATION

The multi-function LCS8T and PCS8T are perfect for value-conscious audio project requirements. 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 indoors.

Both are equally effective for voice transmission, music and signal reproduction in commercial, industrial and institutional applications. Applications include ceiling installation in offices, banks, schools, restaurants, hotel/motels and wherever precise transmission of audio is required.



■ SPECIFICATIONS

<ul style="list-style-type: none"> • CONE SPEAKER SIZE: 8" (203 mm) 	<ul style="list-style-type: none"> • 70.7-VOLT TRANSFORMER TAPS: 5, 2, 1, 0.5, 0.25
<ul style="list-style-type: none"> • FREQUENCY RESPONSE (SEE FIG 1): 60-20,000 Hz \pm 6 dB 	<ul style="list-style-type: none"> • 70.7-VOLT TRANSFORMER IMPEDANCE: 1K, 2.5K, 5K, 10K, 20K
<ul style="list-style-type: none"> • POWER HANDLING (RAW DRIVER): 10 watts 	<ul style="list-style-type: none"> • 25-VOLT TRANSFORMER TAPS: 5, 2, 1, 0.625, 0.25
<ul style="list-style-type: none"> • SPL @ 1w 1m: 95 dB 	<ul style="list-style-type: none"> • 25-VOLT TRANSFORMER IMPEDANCE: 125, 312, 625, 1K, 2.5K
<ul style="list-style-type: none"> • DISPERSION @ 2kHz (6 dB Down): 110° 	<ul style="list-style-type: none"> • SUPPLIED MOUNTING ACCESSORIES: 4 ea. 1-1/2" Phillips-head Screws
<ul style="list-style-type: none"> • DIRECTIVITY Q FACTOR @ 2 kHz: 6.90 	<ul style="list-style-type: none"> • BAFFLE MATERIAL LCS8T: Steel PCS8T: Molded ABS with Molded-in UV Inhibitor
<ul style="list-style-type: none"> • CONE DESIGN: Twin Cone 	<ul style="list-style-type: none"> • FINISH LCS8T: Non-reflective White Powder-Coated Epoxy Paint PCS8T: Non-reflective White
<ul style="list-style-type: none"> • CONE MATERIAL LCS8T: Paper PCS8T: Treated Paper 	<ul style="list-style-type: none"> • SUGGESTED MOUNTING ACCESSORIES: BBX8B Steel Backbox BRG8 Tile Bridge MBK8 Mounting Bracket
<ul style="list-style-type: none"> • MAGNET WEIGHT: 5.34 oz 	<ul style="list-style-type: none"> • DIMENSIONS, INCH (MM): 12.60 x 3.15 (321 x 80)
<ul style="list-style-type: none"> • TRANSFORMER MAX INSERTION LOSS: 1.5 dB 	<ul style="list-style-type: none"> • NET WEIGHT LBS (KGS): 2.58 (1.17)
<ul style="list-style-type: none"> • TRANSFORMER TAP CHANGE: Movable Spade Lug 	
<ul style="list-style-type: none"> • CONNECTION: Via Wire Nuts 	
<ul style="list-style-type: none"> • APPROVALS: CE 	

LCS8T

PCS8T

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS:

Unit shall be Penton Audio USA Model (LCS8T/PCS8T) or approved equal. Assembly shall be comprised of an 8" twin-cone loudspeaker, factory-mounted 70.7/25-volt transformer and grille.

(LCS8T - Grille shall be heavy-gauge steel, finished in white baked-on epoxy powder-coat paint.)

(PCS8T - Grille shall be aesthetically pleasing and constructed of molded high-impact ABS with UV inhibitors used throughout. Speaker cone shall be treated for moisture resistance.)

Loudspeaker shall have wide-angle sound distribution with a minimum of 100° dispersion. 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 95 dB @ 1 watt, 1 meter.

Transformer shall operate on 70.7 or 25-volts with power taps of 5, 2, 1, 0.5 and 0.25 watts. Insertion loss shall not exceed 1.5 dB.

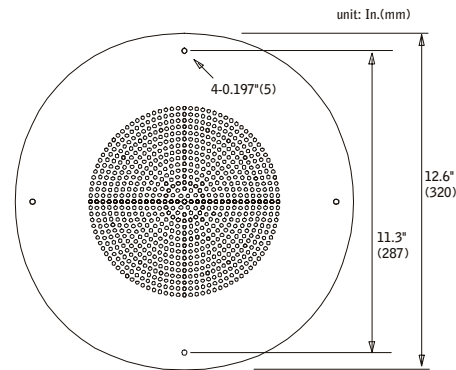


Fig 3: Front View

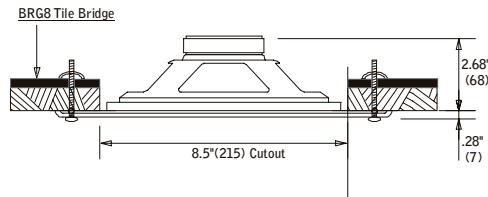


Fig 4: Side View

Watt	25V	70.7V
PIN8	----	0.25
PIN7	----	0.5
PIN6	----	1
PIN5	0.25	2
PIN4	0.625	5
PIN3	1	----
PIN2	2	----
PIN1	5	----
Black	COMMON	

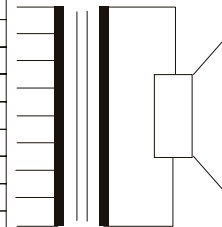


Fig 5: Circuit Diagram

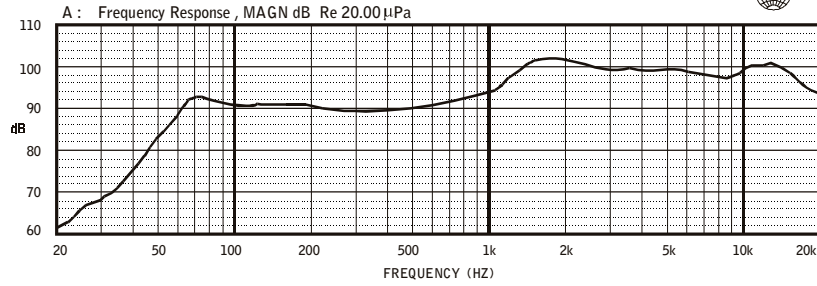


Fig 1: Frequency Response (Measured in Infinite Baffle)

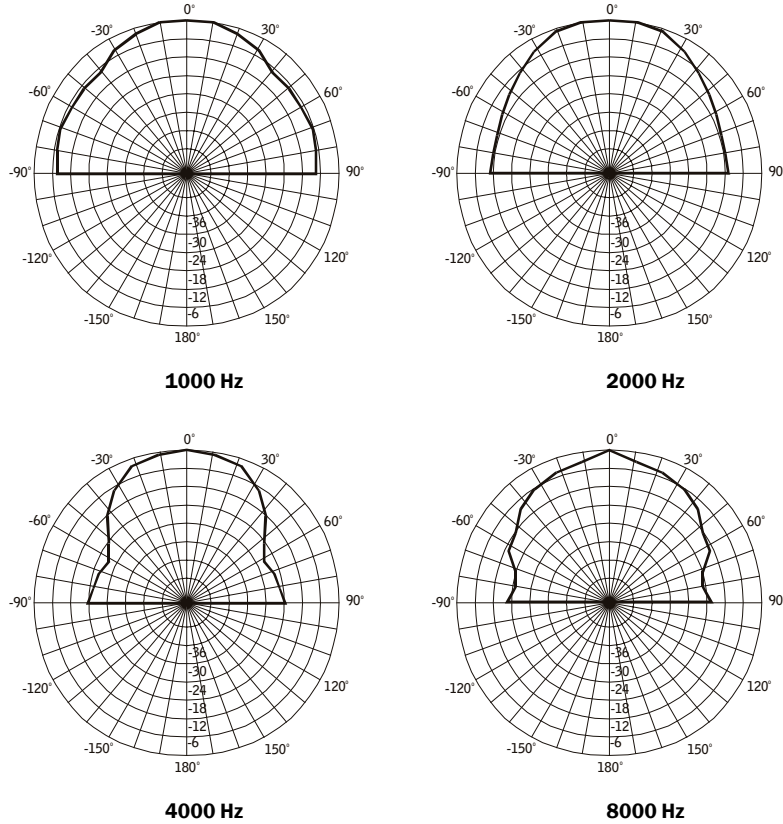


Fig 2: Polar Patterns

