

LCS8XT PCS8XT

8" Coaxial Speaker Packages



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■ FEATURES

- Coaxial for Excellent High-Frequency Dispersion
- 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

High-Performance Penton Audio USA LCS8XT and PCS8XT are 15-watt, 8", coaxial speaker packages with baffles and dual 70.7/25-volt transformers.

Enhanced performance is made possible with 10-ounce ceramic magnets for enhanced low-frequency response and greater efficiency. Tweeters use a post-mounted, 3" paper cone with a 1/2" moving coil for smooth dispersion.

Unusually attractive, the PCS has a UV inhibitor molded-into its ABS grille. Visually identical, the LCS features a heavy-gauge steel grille with only 4 visible mounting screws made possible by 4 hidden metal studs. Models are non-reflecting ceiling white.

Models install easily using the BBX-8B steel backbox and BRG8B tile bridge. LCS8XT and PCS8XT models are shipped with four 1-1/2" white Phillips-head screws.

■ APPLICATION

Coaxial speaker tweeters, provide wider dispersion along with enhanced high-frequencies. Since the PCS grille is made of molded ABS, it is well suited for moist outdoor environments. The steel LCS grille is the choice for indoor.

The LCS8XT and PCS8XT are ideal for premium installations requiring excellent high frequencies. Both are equally effective for voice transmission, music and signal reproduction in commercial, industrial and institutional situations. Applications include ceilings installation in executive offices, banks, restaurants, colleges, hotel/motel ballrooms and other key venues.



■ SPECIFICATIONS

<ul style="list-style-type: none"> • CONE SPEAKER SIZE: 8" (203 mm) 	<ul style="list-style-type: none"> • 70.7-VOLT TRANSFORMER TAPS: 8, 4, 2, 1, 0.5
<ul style="list-style-type: none"> • TWEETER TYPE: 3" Paper Cone with 1/2" Moving Coil 	<ul style="list-style-type: none"> • 70.7-VOLT TRANSFORMER IMPEDANCE: 625, 1.25K, 2.5K, 5K, 10K
<ul style="list-style-type: none"> • FREQUENCY RESPONSE (SEE FIG 1): 50-16,000 Hz \pm 6 dB 	<ul style="list-style-type: none"> • 25-VOLT TRANSFORMER TAPS: 8, 4, 2, 1, 0.5
<ul style="list-style-type: none"> • POWER HANDLING (RAW DRIVER): 20 watts 	<ul style="list-style-type: none"> • 25-VOLT TRANSFORMER IMPEDANCE: 78, 156, 312, 625, 1.25K
<ul style="list-style-type: none"> • SPL @ 1w 1m: 94 dB 	<ul style="list-style-type: none"> • APPROVALS: CE
<ul style="list-style-type: none"> • DISPERSION @ 2 kHz (6 dB Down): 96° 	<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: 6.80 	<ul style="list-style-type: none"> • BAFFLE MATERIAL LCS8XT: Steel PCS8XT: Molded ABS with Molded-in UV Inhibitor
<ul style="list-style-type: none"> • CONE DESIGN: Coaxial 	<ul style="list-style-type: none"> • FINISH LCS8XT: Non-reflective White Powder-Coated Epoxy Paint PCS8XT: Non-reflective White
<ul style="list-style-type: none"> • CONE MATERIAL: 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"> • CONE MAGNET WEIGHT: 10 oz 	<ul style="list-style-type: none"> • DIMENSIONS, INCH (MM): 12.74 x 3.22 (321 x 82)
<ul style="list-style-type: none"> • TRANSFORMER MAX INSERTION LOSS: 0.8 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 	

LCS8XT

PCS8XT

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS:

Unit shall be Penton Audio USA Model (LCS8XT/PCS8XT) or approved equal. Assembly shall be comprised of an 8" coaxial loudspeaker with 10-ounce magnet. Tweeter shall have a post-mounted, 3" paper cone with a 1/2" moving coil. Model shall have a factory-mounted 8-watt, 70.7/25-volt transformer and non-glare white grille.

(LCS8XT - Grille shall be heavy-gauge steel, finished in white baked-on epoxy powder-coat paint.)

(PCS8XT - Grille shall be aesthetically pleasing and constructed of molded high-impact ABS with UV inhibitors used throughout. Speaker cone shall be moisture treated.)

Loudspeaker shall have wide-angle sound distribution with a minimum of 96° dispersion. Paper cone shall be a damped, high-compliance type with smooth extended response over a range of 50-16,000 Hz. Sensitivity shall be a minimum of 94 dB @ 1 watt, 1 meter.

Model shall have a factory-installed 70.7/25-volt transformer with power taps of 8, 4, 2, 1 and 0.5 watts. Insertion loss shall not exceed 0.8 dB.

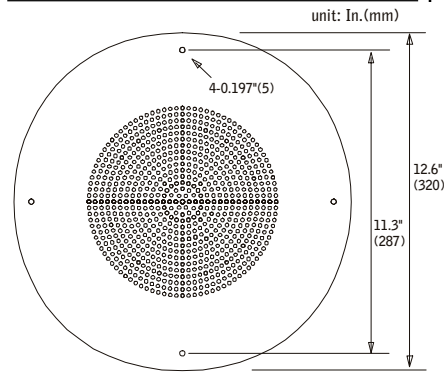


Fig 3: Front View

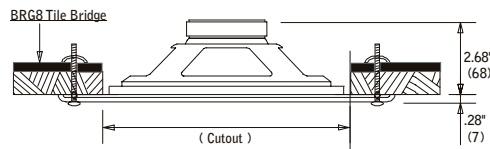


Fig 4: Side View

Watt	25V	70.7V
PIN8	----	0.5
PIN7	----	1
PIN6	----	2
PIN5	0.5	4
PIN4	1	8
PIN3	2	----
PIN2	4	----
PIN1	8	----
Black	COMMON	

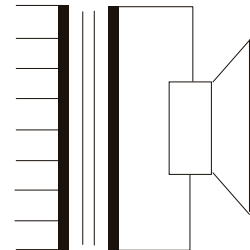


Fig 5: Circuit Diagram

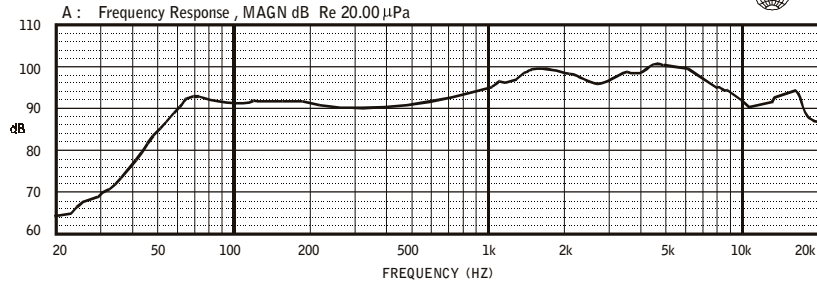


Fig 1: Frequency Response (Measured in Infinite Baffle)

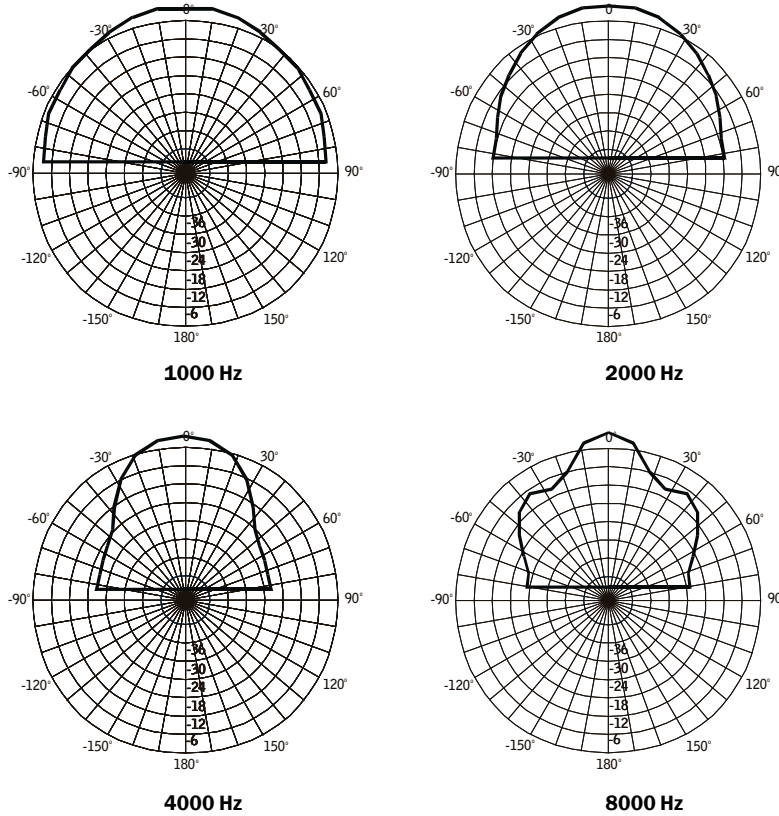


Fig 2: Polar Patterns

