



SM8CXT

High Performance Coaxial Loudspeaker



SM8CXT-B

General Description

SM Series loudspeakers offer quality sound reproduction and contemporary styling. The SM8CXT features the SM8CXT60—a 150 Watt loudspeaker that combines an 8" diameter, low frequency transducer and a 1" exit, compression driver. The speaker has a curvilinear, polypropylene cone for lower harmonic distortion, and a built-in crossover network for proper frequency transition between the two reproducers. The low frequency transducer and the high frequency driver feature permanently aligned voice coils for low distortion performance. The copper coils have Polyimide voice coil formers.

The SM8CXT features a wood enclosure with a metal grille. Internal hardware, for flying, includes multiple (12) 1/4"-20 inserts for overhead suspension in most any orientation.

A 90 degree conical pattern (2kHz octave band) and amazing efficiency make the SM8CXT a perfect choice for a wide variety of applications including school auditoriums, gymnasiums, cafeterias, church sanctuary systems, and more.

Specifications

Power Rating (RMS)	150 Watts
Frequency Response	60Hz – 15kHz (±5dB)
Sensitivity (1W/1M)	92dB
Power Taps	7.5, 15, 30, 60 Watts & 8Ω
Height	15 1/2" (394mm)
Width	10 5/8" (270mm)
Depth	10 3/8" (264mm)
Weight	19 Lbs (8.6kg)
Dispersion Angle	90°
Finish	Rough-Coat, Black or White

Architect and Engineer Specifications

The loudspeaker system shall be Atlas Sound Model SM8CTX. Assemblies shall consist of two-way woofer and tweeter assembly within environmental-resistant housing. The 150 watt systems shall have a 8.25" (310mm) woofer constructed with polypropylene cone and a 1" (25mm) titanium diaphragm compression driver. Each system shall be complete with a built-in, 60 Watt 70.7V/100V transformer. The speaker shall be mounted in a wood enclosure with a metal grille. The enclosure shall provide multiple 20 inserts for mounting. Fuse protection for high and low frequency drivers shall be included.

Features

- High Performance Atlas Sound Compression Driver Coaxial Loudspeaker in Versatile, Flyable, Wood Enclosure
- Multiple (12) 1/4"-20 Inserts, Providing Fly Points for a Variety of Mounting Configurations
- Includes Internal, High Efficiency 60 Watt 70.7V/100V Transformer (May Be Bypassed For 8Ω Operation)
- Barrier Strip Input For 70.7/100V/8Ω or Parallel 4 Pole Speak-On Input for 8Ω Operation Only
- Unique Input Panel Allows Use of Standard 4" Square Box Cover (Raco 753 or Eq.) for Applications Where Flex Conduit is Required for Termination
- Fuse Protection for Low and High Frequency Drivers
- Attractive, Heavy-Duty Grille Assembly
- Durable Black or White, Rough-Coat Finish
- Optional Brackets for Wall Mounting
- Pre-Drilled With T-Nut Inserts for Omnimount™ Bracket Wall Mounting

Applications

The SM8CXT is optimized for high ceiling applications such as arenas, convention centers, gymnasiums, and auditoriums. The extreme high efficiency and higher "Q" of the 8CX with its powerful 8" speaker and 1" exit compression driver, provides the increased available SPL often required in these high ceiling applications. In 70.7V/100V systems this high efficiency can also result in lower tap settings.

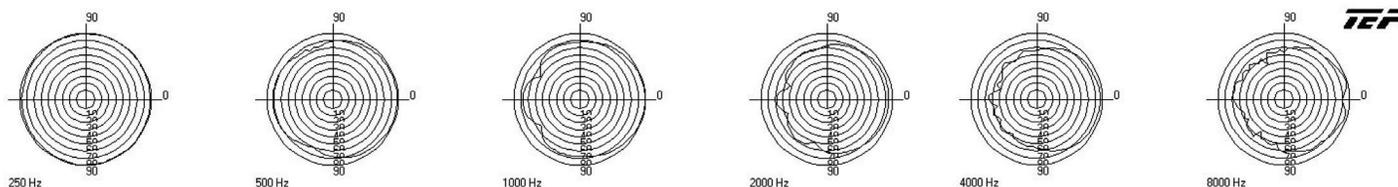


SM8CXT-B Terminals

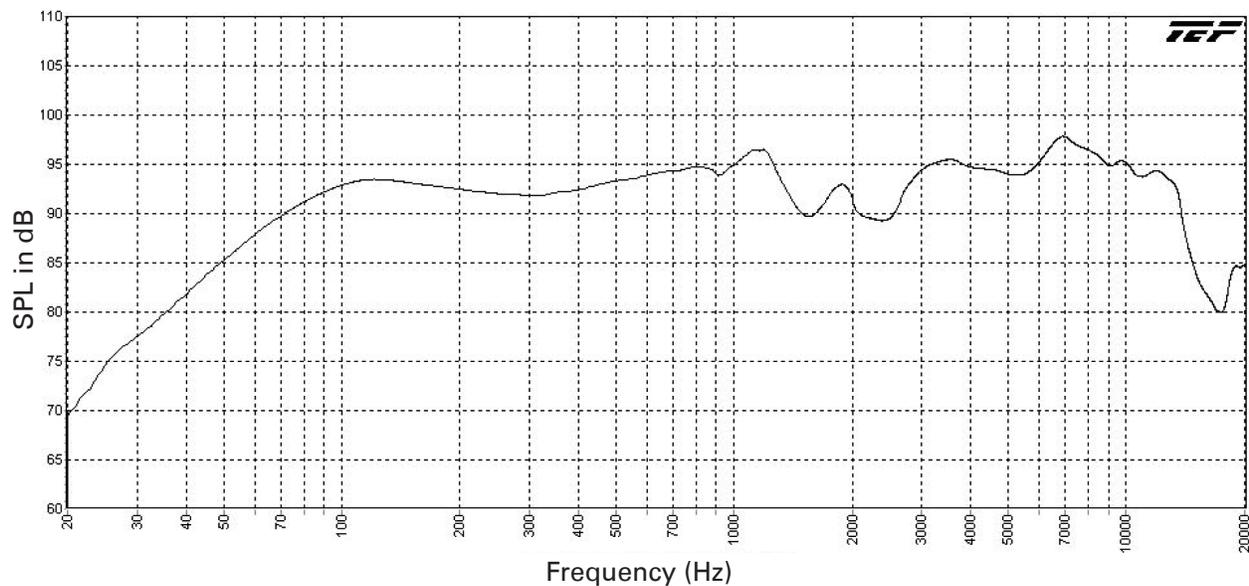
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SM8CXT Polars (Normalized to Zero on Axis) (-6dB)



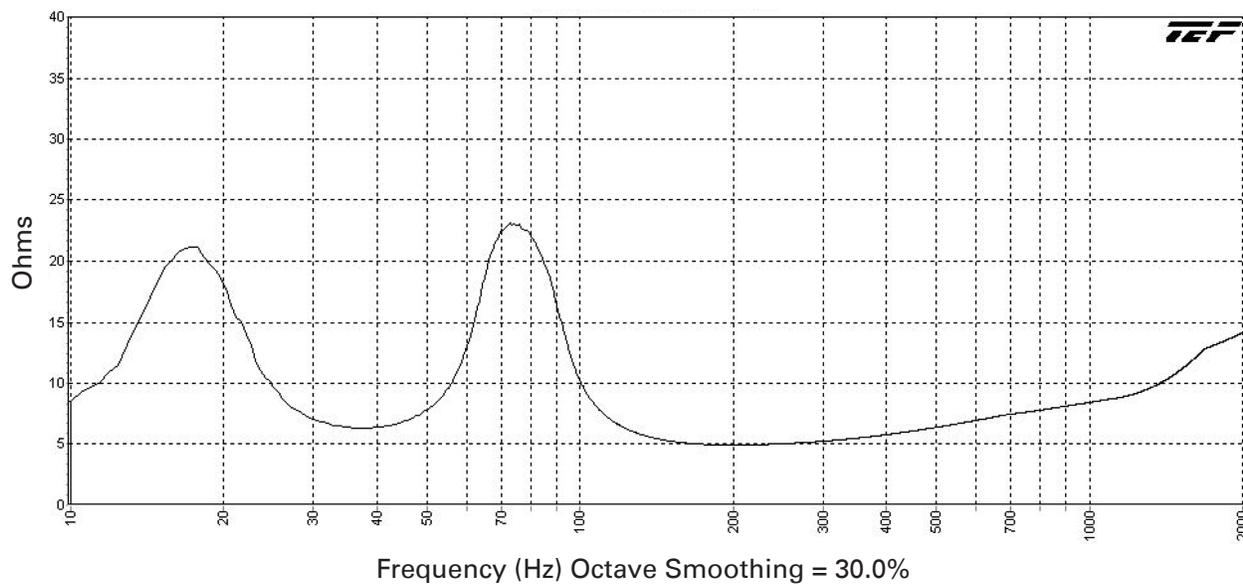
SM8CXT Frequency Response



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SM8CXT Impedance



SM8CXT Beamwidth (-6 dB)

