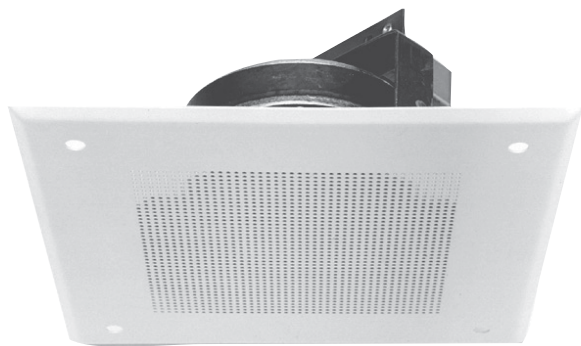




# B Series

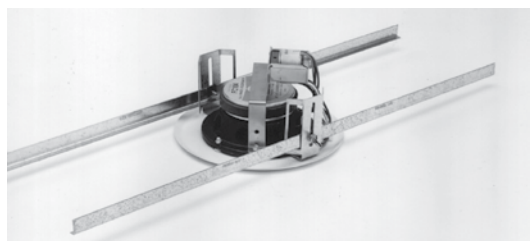
## 4" High Compliance Loudspeaker Transformer/Baffle Assemblies



**B161-4**



**BT720-4**



**EZB161-4**

### General Description

Attractive B Series loudspeaker assemblies combine the sound performance of a full range 4" high compliance loudspeaker with the job site convenience and economy of a factory-assembled loudspeaker, transformer, and baffle. Models incorporate the popular Atlas Sound FC104 high performance loudspeaker, recognized for full-range voice and music reproduction. Unit provides wide-angle sound dispersion to achieve desired coverage with fewer loudspeakers in distributed systems. Each loudspeaker employs a 10 ounce ceramic magnet and a damped, high-compliance cone to provide excellent low-frequency reproduction with smooth extended response. Package includes factory-mounted, dual-voltage 25V/70.7V or 70.7V transformer and round or square grille with screw mount or torsion spring (T) installation where noted. One model is equipped with the patented EZ-Mount support system. EZB Model is designed for application in suspended ceiling tile installations which do not require a protective enclosure. Assemblies include pre-mounted EZ brackets which are slotted to accept EZ mount support rails (provided). Rails attach with wingnuts and adjust vertically to accommodate varying ceiling depth requirements (Note: No tile bridge is required). All B Series packages are shipped assembled and ready for installation.

### FC104 Loudspeaker Specifications

Speaker Size	4" (102mm)
V.C. Impedance	8Ω Nominal
Flux Density	10,500 Gauss
Sensitivity	94db (1W/1M)
Power Rating	10 Watts Program
Resonance	101Hz
Freq. Response	150Hz –17kHz
Dispersion	135°/ -6db, 2kHz Octave Band
Magnet	10oz. Ceramic
V.C. Diameter	1" (25mm)
Depth	2¼"(57mm) (less Transformers)

### Features

- High Compliance 4" Loudspeaker for Full-Range Audio Reproduction in Background Music and Paging Systems
- Factory-Assembled Loudspeaker Packages Save Time and Money
- Choice of Eight Loudspeaker/Transformer/Baffle Configurations
- Selection Includes Models with Easy-To-Install Torsion Spring Grilles and Models with The Cost-Efficient, EZ-Mount Installation System

### Applications

Save time and money by installing B Series 4" diameter loudspeaker packages for background music and public address systems wherever the functional and architectural integrity of a small ceiling assembly is desirable. Full-range, high-quality sound reproduction is ideal for professional offices, reception areas, waiting rooms, corridors and balconies. Choose from 8 factory-assembled loudspeaker/transformer models with standard baffle or easy-to-install torsion spring grille. For suspended ceiling installations utilize models with the time saving EZ-Mount installation system.

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Model	Loudspeaker	Baffle	XFMR	Primary Taps	Core Size	XFMR Freq. Response	Insertion Loss	Tile Bridge / Drywall Trim Ring (Order Separately)	Enclosure/ Mounting Ring
★ B51-4	4" (FC104)	51-4	LT72 (70.7V/25V)	.25, .5, 1, 2, & 4	½" X ¾" (13mm X 16mm)	100Hz - 10kHz (±1.5dB)	1.5dB	81-4, 76-4	(EZ)96-4, (EZ)96-4
B161-4	4" (FC104)	161-4	LT72 (70.7V/25V)	.25, .5, 1, 2, & 4	½" X ¾" (13mm X 16mm)	100Hz - 10kHz (±1.5dB)	1.5dB	N/A	198-4**, SE198-4
EZB161-4	4" (FC104)	T161-4	LT72 (70.7V/25V)	.25, .5, 1, 2, & 4	½" X ¾" (13mm X 16mm)	100Hz - 10kHz (±1.5dB)	1.5dB	Not Required (EZ Mounting rail system is included)	N/A
BT720-4	4" (FC104)	T720-4	LT72 (70.7V/25V)	.25, .5, 1, 2, & 4	½" X ¾" (13mm X 16mm)	100Hz - 10kHz (±1.5dB)	1.5dB	PR411, TR411	(EZ)E410*, E410-11*
★ BT720-4-T47	4" (FC104)	T720-4	HT47(70.7V)	.5, 1, 2, & 4	½" X ¾" (13mm X 16mm)	60Hz - 12kHz (±1dB)	1.5dB	PR411, TR411	(EZ)E410*, E410-11*

★ FA81-6 Tile bridge may be used in conjunction with E410 or E410-11 (non EZ version) enclosures for drop tile applications

### Baffle Mounting Guide for B Series

Model	Enclosure	Mouting Ring	Title Bridge
B51-4	(EZ)96-4, (EZ)96-4X	76-4	81-4, 76-4
B161-4	—	—	198-4, SE198-4
BT720-4	PR411	FA81-4	E410(-11), E410NK, EZE410
BT720-4-T47	(EZ)E410*, E410-11*	FA81-4	PR411, TR411

### Architect and Engineer Specifications

Loudspeaker package shall be Atlas Sound Model \_\_\_\_ (B51-4, B161-4, EZB161-4, BT720-4, BT720-4-T47) or approved equal.

Factory assemblies shall be comprised of an Atlas Sound Model FC104, 4" high compliance loudspeaker or FA134, 4" coaxial loudspeaker, 25V/70.7V or 70.7V transformer and baffle.

Models including high compliance Model FC104 Loudspeaker shall have wide angle sound distribution with 135° dispersion (-6dB, 2kHz octave band). The cone shall be a damped, high compliance type with smooth extended response over a range of 150Hz -17kHz and a power rating of not less than 10 watts program. The magnet shall be a 10 ounce (283g) ceramic type. The 1" (25mm) voice coil shall operate in a magnetic field of at least 10,500 gauss. Voice coil impedance shall be 8Ω. Sensitivity shall be 94dB [measured 1W/1M]. Free air resonance shall be 101Hz.

Enclosures shall be Model \_\_\_\_\_ (96-4, 96-4X, 198-4) and shall be listed by Underwriters Laboratories (UL 1480 General Signaling and accepted under UL 2043 for use in air handling "plenum" spaces). Assemblies with support rails shall include pre-mounted brackets and shall transfer the loudspeaker package weight to the ceiling system support rails.