

# B Series

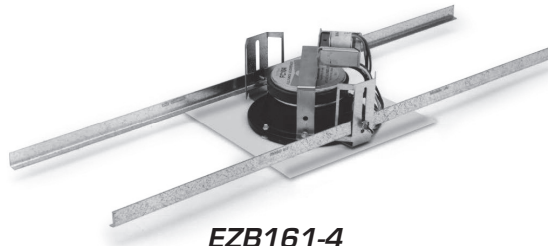
## 4" High Compliance Loudspeaker Transformer/Baffle Assemblies



**BT720-4**



**B161-4**



**EZB161-4**

### 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.

### 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 AtlasIED 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.

System	
Type	4" (102mm) High Compliance Loudspeaker Transformer / Baffle Assemblies
V.C. Impedance	8Ω Nominal
Flux Density	10,500 Gauss
Sensitivity	94db (1W/1M)
Power Rating	10 Watts Program
Resonance	101Hz
Frequency Response	150Hz - 17kHz
Dispersion	135° / -6db, 2kHz Octave Band
Magnet	10oz. Ceramic
Mechanical	
V.C. Diameter	1" (25mm)
Depth	2.25" (57mm) (Less Transformers) / 3.64" (63mm)

Model	B51-4*	B161-4	EZB161-4	BT720-4	BT720-4-T47*
Loudspeaker	4" (FC104)	4" (FC104)	4" (FC104)	4" (FC104)	4" (FC104)
Baffle	51-4	161-4	T161-4	T720-4	T720-4
XFMR	LT72 (70.0V/25V)	LT72 (70.0V/25V)	LT72 (70.0V/25V)	LT72 (70.0V/25V)	HT47 (70.7V)
Primary Taps	0.25, 0.5, 1, 2, & 4	0.25, 0.5, 1, 2, & 4	0.25, 0.5, 1, 2, & 4	0.25, 0.5, 1, 2, & 4	0.5, 1, 2, & 4
Core Size	1/2" x 5/8" (13mm x 16mm)	1/2" x 5/8" (13mm x 16mm)	1/2" x 5/8" (13mm x 16mm)	1/2" x 5/8" (13mm x 16mm)	1/2" x 5/8" (13mm x 16mm)
XFMR Frequency Response	100Hz-10kHz (1.5dB)	100Hz-10kHz (1.5dB)	100Hz-10kHz (1.5dB)	100Hz-10kHz (1.5dB)	60Hz-12kHz (1dB)
Insertion Loss	1.5dB	1.5dB	1.5dB	1.5dB	1.5dB
Tile Bridge / Drywall Trim Ring (Order Separately)	81-4	N/A	Not Required (EZ Mounting Rail System Included)	PR411, TR411	PR411, TR411
Enclosure / Mounting Ring	(EZ)96-4, (EZ)96-4	198-4, SE198-4	N/A	(EZ)E410*, E410-11*	(EZ)E410*, E410-11*

\*FA81-4 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	B51-4	B161-4	BT720-4	BT720-4-T47
Enclosure	(EZ)96-4, (EZ)96X	-	PR411	(EZ)E410*, E410-11*
Mounting Ring	-	-	FA81-4	FA81-4
Tile Bridge	81-4	198-4, SE198-4	E410(-11), E410NK, EZE410	PR411, TR411

## Architect & Engineer Specifications

Loudspeaker package shall be AtlasIED Model \_\_\_\_\_ (B51-4, B161-4, EZB161-4, BT720-4, BT720-4-T47) or approved equal. Factory assemblies shall be comprised of an AtlasIED 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.