



4" HIGH COMPLIANCE LOUDSPEAKER TRANSFORMER/BAFFLE ASSEMBLIES

B Series

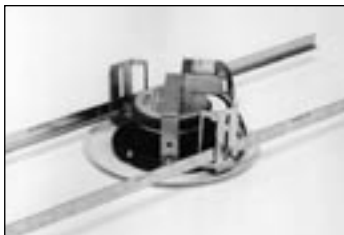
ONE



B161-4



BT720-4



EZB51-4

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 an unobtrusive size 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 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 70.7/25V or 70.7V transformer and round or square grille with screw mount or torsion spring (T) installation where noted. Two models are equipped with the patented EZ-Mount support system. EZB Models are 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	8 ohm nominal
FLUX DENSITY	10,500 Gauss	SENSITIVITY	94dB (1W, 1M)
POWER RATING	10 Watts Program	RESONANCE	101 Hz
FREQ. RESPONSE	150Hz-17kHz	DISPERSION	135°/ -6dB, 2kHz
MAGNET	10 oz. Ceramic		Octave Band
V.C. DIAMETER	1" (25mm)	DEPTH	2¼"(57mm) (less Xfmr)

FA134 LOUDSPEAKER SPECIFICATIONS

SPEAKER SIZE	4" (102mm)	V.C. IMPEDANCE	8 ohm nominal
FLUX DENSITY	11,300 Gauss	SENSITIVITY	88dB (1W, 1M)
POWER RATING	15 Watts Program	RESONANCE	80Hz
FREQ. RESPONSE	110Hz-20kHz ((+/-)5dB)	DISPERSION	130°/ -6dB, 2kHz
MAGNET	10 oz. Ceramic		Octave Band
V.C. DIAMETER	1" (25mm)	DEPTH	2¼"(57mm) (less Xfmr)

Specifications subject to change without notice



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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	1/2" X 5/8" (13MM X 16MM)	100Hz - 10kHz (+/- 1.5dB)	1.5dB	81-4, 76-4	(EZ)96-4, (EZ)96-4
EZB51-4	4" (FC104)	T51-4	LT72 (70.7V/25V)	.25, .5, 1, 2, & 4	1/2" X 5/8" (13MM X 16MM)	100Hz - 10kHz (+/- 1.5dB)	1.5dB	Not Required (EZ Mounting rail system is included)	N/A
BT51-4	4" (FC104)	T51-4	LT72 (70.7V/25V)	.25, .5, 1, 2, & 4	1/2" X 5/8" (13MM X 16MM)	100Hz - 10kHz (+/- 1.5dB)	1.5dB	PR411, TR411	(EZ)E410*, E410-11*
B161-4	4" (FC104)	161-4	LT72 (70.7V/25V)	.25, .5, 1, 2, & 4	1/2" X 5/8" (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	1/2" X 5/8" (13MM X 16MM)	100Hz - 10kHz (+/- 1.5dB)	1.5dB	Not Required (EZ Mounting rail system is included)	N/A
BT710-4	4" (FC104)	T710-4	LT72 (70.7V/25V)	.25, .5, 1, 2, & 4	1/2" X 5/8" (13MM X 16MM)	100Hz - 10kHz (+/- 1.5dB)	1.5dB	PR411, TR411	(EZ)E410*, E410-11*
BT720-4	4" (FC104)	T720-4	LT72 (70.7V/25V)	.25, .5, 1, 2, & 4	1/2" X 5/8" (13MM X 16MM)	100Hz - 10kHz (+/- 1.5dB)	1.5dB	PR411, TR411	(EZ)E410*, E410-11*
★ BT720-4-T47	4" Coaxial (FA134)	T720-4	HT47(70.7V)	.5, 1, 2, & 4	1/2" X 5/8" (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

ARCHITECT AND ENGINEER SPECIFICATIONS

Loudspeaker package shall be Atlas Sound Model ____ (B51-4, EZB51-4, BT51-4, B161-4, EZB161-4, BT710-4, 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, 70.7/25V or 70.7V transformer and baffle.

Models including high compliance Model FC104 Loudspeaker shall have wide angle sound distribution with 135° dispersion (-6dB, 2 kHz octave band). The cone shall be a damped, high compliance type with smooth extended response over a range of 150 Hz to 17 kHz 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 8 ohms. Sensitivity shall be 94dB [measured 1W/1M]. Free air resonance shall be 101 Hz.

Model including high Model FA134 Coaxial Loudspeaker shall have wide angle sound distribution with 130° dispersion (-6dB, 2 kHz octave band). The cone shall be a damped, polypropylene type with smooth extended response over a range of 110 Hz to 20 kHz and a power rating of not less than 15 watts program. The magnet shall be a 10

ounce (283g) ceramic type. The 1" (25mm) woofer voice coil shall operate in a magnetic field of at least 11,300 gauss. High frequency device shall be a 1" (25mm) PEI tweeter. Crossover frequency shall be 8000Hz. Nominal impedance shall be 8 ohms. Sensitivity shall be 88dB [measured 1W/1M]. Free air resonance shall be 80 Hz.

Loudspeaker shall include a pre-mounted ____ (70.7/25V or 70.7V) transformer with power taps of ____ (.25, .5, 1, 2, 4 – LT72, .5, 1, 2, 4 – HT47). Transformer frequency response shall be ____ (+/- 1.5dB @ 100 Hz to 10KHz – LT72 or +/-1dB @ 60 Hz to 12 KHz-HT47). Insertion loss shall not exceed ____ (+1.5dB-LT72 or +1dB-HT47). Assemblies without support rails shall mount to enclosure Model ____ or mounting ring Model ____ or tile bridge Model ____ or approved equal.

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.

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