

DESCRIPTION

The SB products are EAW's premium subwoofers designed for the most demanding professional applications. A broad range of capabilities and sizes provide the designer with selections that can be specifically matched to their application. Top quality drivers, engineered by EAW, provide the highest output and best sonic performance possible for a given form factor. All SB models are direct radiating, with optimally tuned, vented enclosures. SB subwoofers are the choice where the best sonic performance, highest reliability, and most robust physical construction are required.

The SB150zR is a high output, compact subwoofer system. This versatile, all-purpose subwoofer is designed for portable use where the solid-sounding output of a 15 inch driver is desired. The SB150zR works well with most full-range loudspeakers in a variety of applications including: band/club PA, small houses of worship, A/V systems, hotel ballrooms, meeting rooms, classrooms, exhibit areas, f/x reinforcement, cruise ships, DJ monitoring, and drum-fill monitoring.

The SB150zR is designed to be used with today's sophisticated digital signal processing to optimize the LF response. EAW's MX Series processors are recommended for the required crossover and equalization.

Six Year Warranty.

15 INCH SUBWOOFER

SUB Operating Mode Single-amp PERFORMANCE ¹ Operating Range Nominal Beamwidth Horz Vert Axial Sensitivity (SPL) LF (whole space)	Transducer 1x 15 in cone Amplifier Channels LF 34 Hz to 145 Hz 360°	Loading Vented External Signal Processing DSP w/1-way filter
SUB Operating Mode Single-amp PERFORMANCE ¹ Operating Range Nominal Beamwidth Horz Vert Axial Sensitivity (SPL) LF (whole space) (half space)	1x 15 in cone Amplifier Channels LF 34 Hz to 145 Hz 360° 360°	Vented External Signal Processing
Operating Mode Single-amp PERFORMANCE ¹ Operating Range Nominal Beamwidth Horz Vert Axial Sensitivity (SPL) LF (whole space) (half space)	Amplifier Channels LF 34 Hz to 145 Hz 360° 360°	External Signal Processing
Single-amp PERFORMANCE ¹ Operating Range Nominal Beamwidth Horz Vert Axial Sensitivity (SPL) LF (whole space) (half space)	LF 34 Hz to 145 Hz 360° 360°	<u> </u>
Single-amp T PERFORMANCE 1 Operating Range Nominal Beamwidth Horz 3 Vert 3 Axial Sensitivity (SPL) LF (whole space) 9 (half space) 7	LF 34 Hz to 145 Hz 360° 360°	<u> </u>
PERFORMANCE ¹ Operating Range Nominal Beamwidth Horz Vert Axial Sensitivity (SPL) LF (whole space) (half space)	34 Hz to 145 Hz 360° 360°	DSP w/1-way filter
Operating Range Nominal Beamwidth Horz Vert Axial Sensitivity (SPL) LF (whole space) (half space)	360° 360°	
Nominal Beamwidth Horz Vert Axial Sensitivity (SPL) LF (whole space) (half space)	360° 360°	
Horz Vert Axial Sensitivity (SPL) LF (whole space) (half space)	360°	
Vert 3 Axial Sensitivity (SPL) LF (whole space) 9 (half space) 9	360°	
Axial Sensitivity (SPL) LF (whole space) (half space)		
LF (whole space) (half space)		
(half space)	1	
,	94 dB	34 Hz to 145 Hz
Input Impedance (ohm	100 dB	34 Hz to 145 Hz
input impodution (offici	ns)	
	Nominal	Minimum
LF t	8	6.9 @ 40 Hz
High Pass Filter		
High Pass =	=>30 Hz, 12 dB/octave Butte	erworth
Accelerated Life Test ²	2	
System LF 6	65 V	525 W @ 8 ohm
Transducer (AES)	700 W	
Calculated Axial Output	ut Limit (SPL)	
	Average	Peak
LF (whole space)	121 dB	127 dB
(half space)	127 dB	133 dB
ORDERING DATA		
Description		Part Number
SB150zR 15 inch Subw	voofer Black	0008839

1 To achieve specified performance, the listed external signal processing with EAW-provided settings is required.

2 For recommendations to select power amplifier size refer to : "HOW MUCH AMPLIFIER POWER DO I NEED?" on the EAW web site.



EAW products are continually improved. All specifications and a continually improved. All specifications are continued and the specification and the specification are continued and the specification are continu

SB150zR Specifications

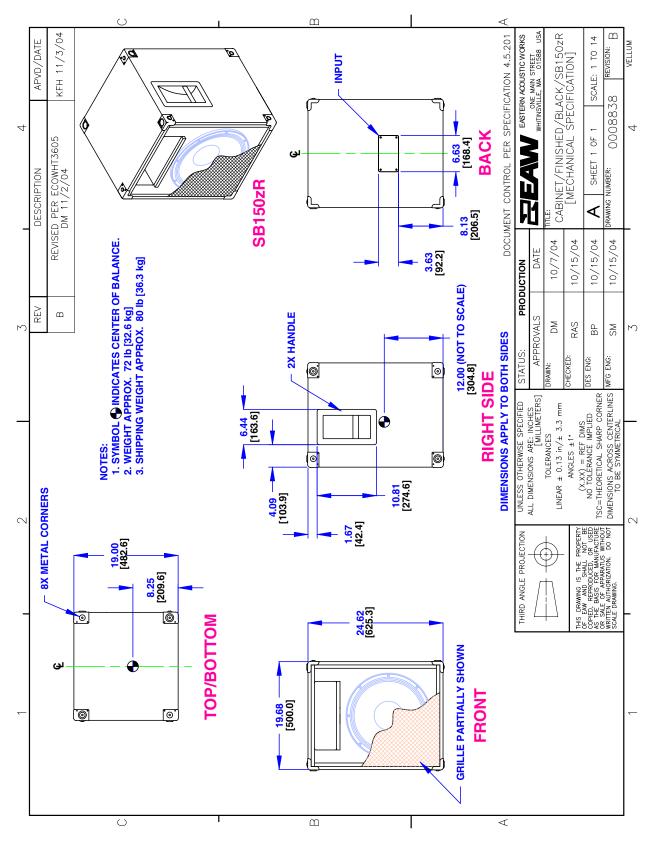
ENCLOSURE

Material

 Iaterial
 Baltic birch plywood

 Finish
 Wear resistant textured black paint

Grille Vinyl-coated perforated steel

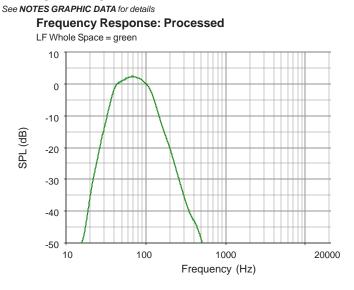


NOTE: This drawing has been reduced. Do not scale.

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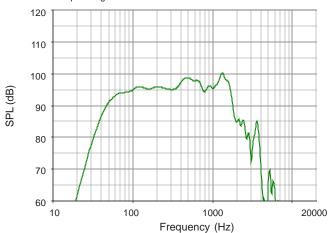
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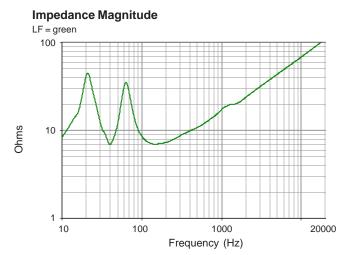
PERFORMANCE DATA



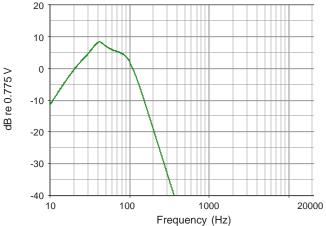
Frequency Response: Unprocessed







Frequency Response: Digital Signal Processor LF = green

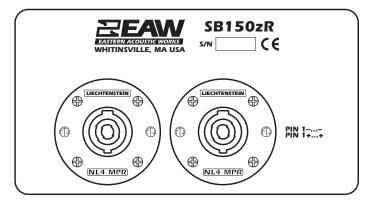




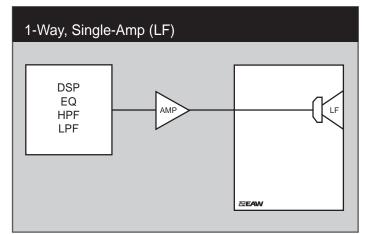
SB150zR Specifications

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INPUT PANEL



SIGNAL DIAGRAM



LEGEND

DSP: User-supplied Digital Signal Processor.

HPF: High Pass Filter for crossover or specified High Pass Filter.

LPF: Low Pass Filter for crossover.

LF/MF/HF: Low Frequency / Mid Frequency / High Frequency.

AMP: User-supplied Power Amplifier.

XVR: Passive LPFs, HPFs, and EQ integral to the loudspeaker.

NOTES

TABULAR DATA

- 1. Measurement/Data Processing Systems: Primary FChart: proprietary EAW software; Secondary Brüel & Kjær 2012.
- 2. Microphone Systems: Earthworks M30; Brüel & Kjær 4133
- 3. Measurements: Dual channel FFT; length: 32 768 samples; sample rate: 48 kHz; logarithmic sine wave sweep.
- 4. Measurement System Qualification (includes all uncertainties): SPL: accuracy +/-0.2 dB @ 1 kHz, precision +/-0.5 dB 20 Hz to 20 kHz, resolution 0.05 dB; Frequency: accuracy +/-10.4 µs, precision +/-0.5 Hz, resolution 10.4 µs; Angular: accuracy +/-10.5 °, resolution 0.5°.
- 5. Environment: Measurements time-widowed and processed to eliminate room effects, approximating an anechoic environment. Data processed as anechoic or fractional space, as noted.
- 6. Measurement Distance: 7.46 m. Acoustic responses represent complex summation of the subsystems at 20 m. SPL is referenced to other distances using the Inverse Square Law.
- 7. Volts: Measured rms value of the test signal.
- 8. Watts: Per audio industry practice, "loudspeaker watts" are calculated as voltage squared divided by rated nominal impedance. Thus, these are not True Watt units of energy as defined by International Standard.
- 9. SPL: (Sound Pressure Level) Equivalent to the average level of a signal referenced to 0 dB SPL = 20 microPascals.
- 10. Subsystem: This lists the transducer(s) and their acoustic loading for each passband. Sub = Subwoofer, LF = Low Frequency, MF = Mid Frequency, HF = High Frequency.
- 11. Operating Mode: User selectable configurations. Between system elements, a comma (,) = separate amplifier channels; a slash (/) = single amplifier channel. DSP = Digital Signal Processor. IMPORTANT: To achieve the specified performance, the listed external signal processing must be used with EAW-provided settings.
- 12. Operating Range: Range where the processed Frequency Response stays within -10 dB SPL of the power averaged SPL within this range; measured on the geometric axis. Narrow band dips are excepted.
- 13. Nominal Beamwidth: Design angle for the -6 dB SPL points, referenced to 0 dB SPL as the highest level.
- 14. Axial Sensitivity: Power averaged SPL over the Operating Range with an input voltage that would produce 1 W at the nominal impedance; measured with no external processing on the geometric axis, referenced to 1 m.
- 15. Nominal Impedance: Selected 4, 8, or 16 ohm resistance such that the minimum impedance point is no more than 20% below this resistance over the Operating Range.
- 16. High Pass Filter: This helps protect the loudspeaker from excessive input signal levels at frequencies below the Operating Range.
- 17. Accelerated Life Test: System: Maximum test input voltage applied with an EIA-426B defined spectrum; measured with specified signal processing; Transducer: AES2-1984 R 1997.
- 18. Calculated Axial Output Limit: Highest average and peak SPLs possible during the Accelerated Life Test. The Peak SPL represents the 2:1 (6 dB) crest factor of the Life Test signal.

GRAPHIC DATA

- 1. Resolution: To remove insignificant fine details, 1/12 octave cepstral smoothing was applied to acoustic frequency responses and 1/3 octave cepstral smoothing was applied to the beamwidth and impedance data. Other graphs are plotted using raw data.
- 2. Frequency Responses: Variation in acoustic output level with frequency for a constant input signal. Processed: normalized to 0 dB SPL. Unprocessed inputs: 2 V (4 ohm nominal impedance), 2.83 V (8 ohm nominal impedance), or 4 V (16 ohm nominal impedance) referenced to a distance of 1 m.
- 3. Processor Response: The variation in output level with frequency for a constant input signal of 0.775 V = 0 dB reference.
- 4. Impedance: Variation in impedance magnitude, in ohms, with frequency without regard to voltage/current phase. This means the impedance values may not be used to calculate True Watts (see 8 above).



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