

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 SB48zP is a highly compact subwoofer system optimized for permanent installation. Its small size allows placement in tight places while providing the extremely low frequency response of much larger systems. While the SB48zP works well with most full-range loudspeakers, its most frequent uses are in high quality multi-media systems. These applications include: A/V systems, meeting rooms, classrooms, exhibit areas, f/x reinforcement, cruise ships, TV studios, restaurants, and small retail spaces.

The SB48zP 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.

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CONFIGURATION		
Subsystem		
	Transducer	Loading
SUB	2x 8 in cone	Vented
Operating Mode		
	Amplifier Channels	External Signal Processing
Single-amp	LF	DSP w/1-way filter
PERFORMANCE ¹		
Operating Range	31 Hz to 141 Hz	
Nominal Beamwidth		
Horz	360°	
Vert	360°	
Axial Sensitivity (SP	L)	
LF (whole space)	88 dB	31 Hz to 141 Hz
(half space)	94 dB	31 Hz to 141 Hz
Input Impedance (oh	ms)	
	Nominal	Minimum
LF	8	7.9 @ 141 Hz
Recommended High	Pass Filter	
High Pass	=>30 Hz, 12 dB/octave I	Butterworth
Accelerated Life Tes	t ²	
System LF	57 V	400 W @ 8 ohm
Transducer (AES)	200 W (each)	
Calculated Axial Out	put Limit (SPL)	
	Average	Peak
LF(whole space)	114 dB	120 dB
(half space)	120 dB	126 dB
ORDERING DATA		
Description		Part Number
SB48zP Dual 8 inch Subwoofer Black		0011511
SB48zP Dual 8 inch Subwoofer White		0014010
SB48zP Dual 8 inch Subwoofer Black WP		0011807
Optional Accessorie	S	

3/8-16 Forged Shoulder Eyebolt 104001

DUAL 8 INCH SUBWOOFER

See NOTES TABULAR DATA for details, half space = floor-mounted

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.



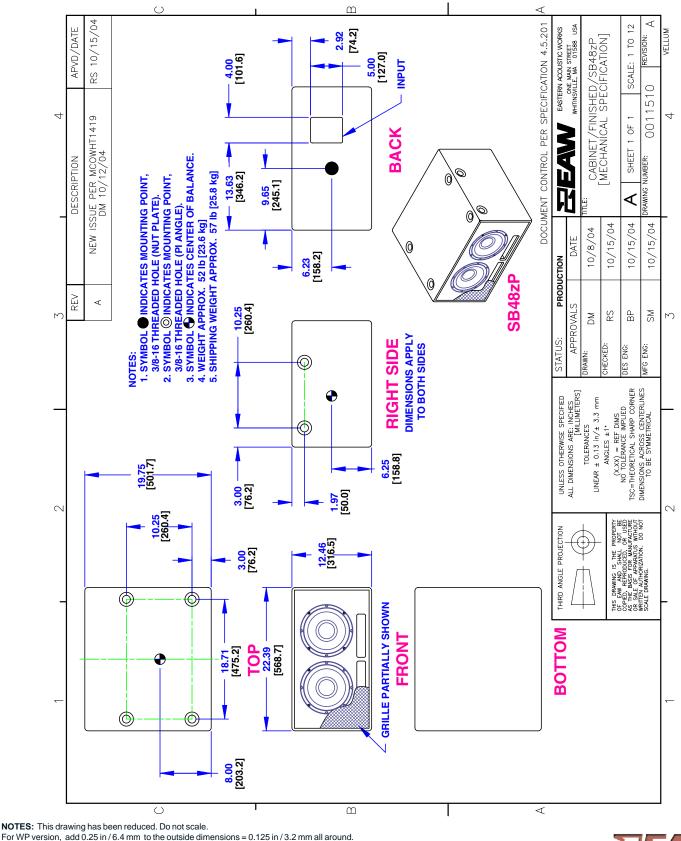
EAW products are continually improved. All specification Standard (A) SB482P April 2005 (A) SB482P April 2005

ENCLOSURE

Material

Baltic birch plywood Wear resistant textured black paint Finish

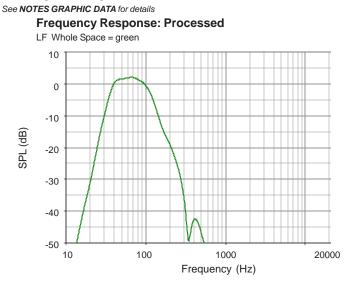
Grille Powder-coated perforated steel





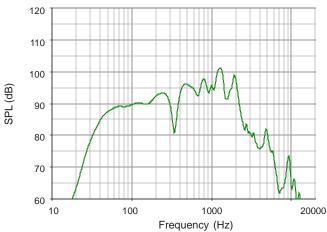
刘 SYSTEM SPECIFICATION STANDARD Eastern Acoustic Works One Main Street Whitinsville, MA 01588 tel 800 992 5013 / 508 234 6158 fax 508 234 8251 www.eaw.com EAW products are continually improved. All specifications are therefore where the source and be and Part Number: RD0223 (A) SB48zP April 2005

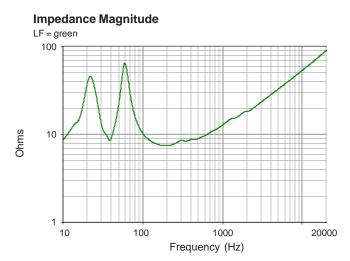
PERFORMANCE DATA



Frequency Response: Unprocessed

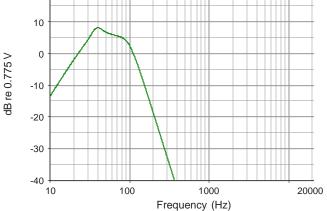




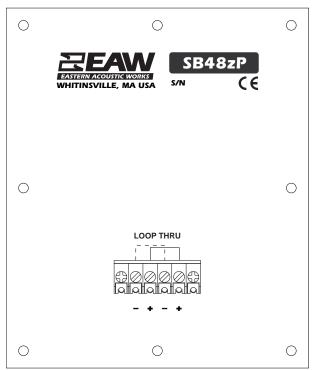


LF = green 20 10

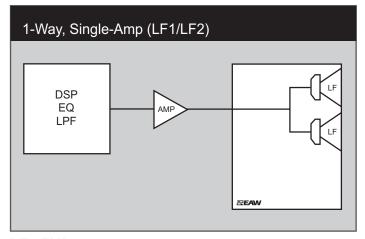
Frequency Response: Digital Signal Processor



INPUT PANEL



SIGNAL DIAGRAM



LEGEND

D

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 +/-1 %, precision +/-0.1 Hz, resolution the larger of 1.5 Hz or 1/48 octave; Time: accuracy +/-10.4 µs, precision +/-0.5 µs, resolution 10.4 µs; Angular: accuracy +/-1°, precision +/-0.5°, 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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