ShowMatch™ SMS118

DeltaQ™ array subwoofer

PROFESSIONAL

PRELIMINARY TECHNICAL DATA SHEET

Key Features



- **DeltaQ™ technology** is the next-generation line-array design that allows "Q" (directivity) to vary with each module in the array for more consistent coverage over wide frequency range, reduced array weight and cost, and outstanding vocal clarity
- **ShowMatch DeltaQ companion 1x 18" subwoofer** for low-frequency extension down to 29 Hz with mixed mid/high and subwoofer ShowMatch arrays
- **Bose LF18 neodymium 18-inch**, high-excursion, 4.5-inch voice coil, transducer provides maximum performance (same transducer as in Bose RMS218)
- **Integrated 4-point "quick pin" rigging** allows arrays of up to 12 subwoofers with 10:1 safety factor
- **Front-grill mounted NL4 input,** plus rear NL4 inputs, allow easy setup for "reversed box" cardioid arrays
- **Integrated pole-cup adapter** allows use with other mid/high loudspeakers and accessory mounting poles.

Product Overview

Bose ShowMatch™ SMS118 subwoofer is designed primarily to integrate with DeltaQ™ array loudspeakers and extend low-frequency response down to 29 Hz. The SMS118 enclosure width and integrated rigging allows fast integration in arrays with ShowMatch full-range modules using optional array frames and accessories. The portable-rated Baltic birch enclosure may also be used for ground-stack applications and includes an integrated mounting-pole adapter for use with other mid/high loudspeakers.

Technical Specifications

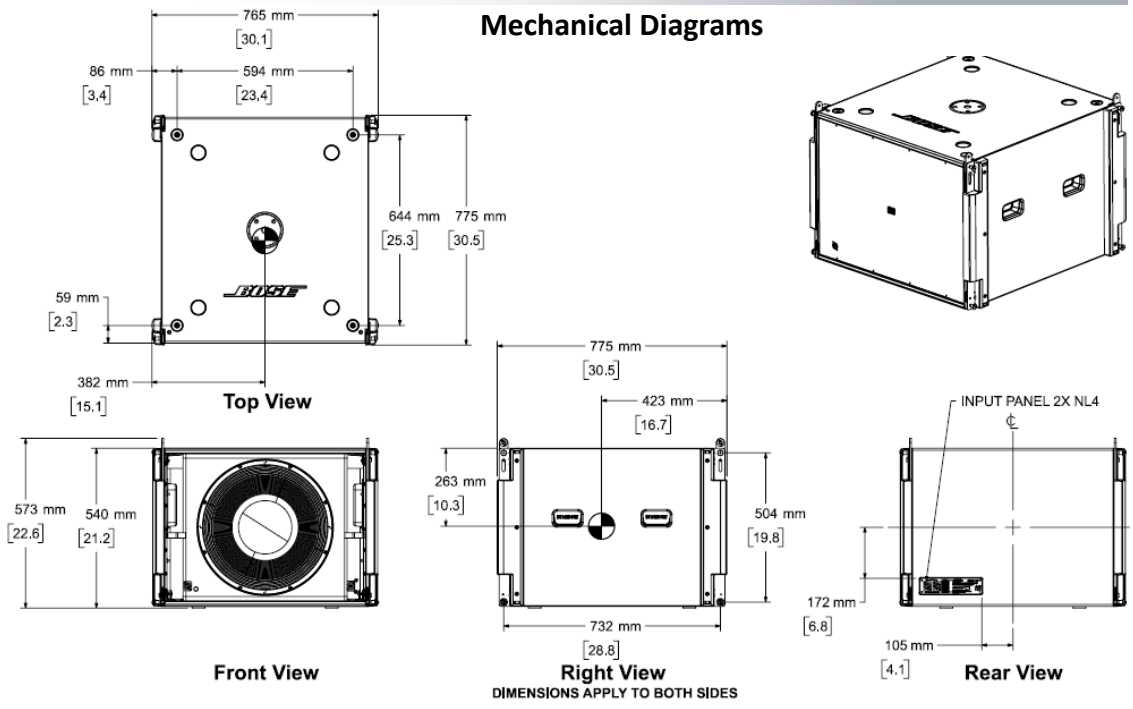
Single Module Performance				
Frequency Response (+ / -3 dB) [1]	32 – 250 Hz			
Frequency Range (-10 dB)	29 – 300 Hz			
Recommended High-Pass Protection Filter	30 Hz with minimum 12-dB / octave filter			
Nominal Coverage Pattern	omni with cardioid array configuations			
Recommended Crossover	60-100 Hz (requires active crossover in DSP)			
	Bose extended-lifecycle test [4]		**AES transducer test** [5]	
	Array (free field)	**Ground Stack**	**Array (free field)**	**Ground Stack**
Power Handling, long-term continuous	750 W	750 W	1250 W	1250 W
Power Handling, peak	3000 W	3000 W	5000 W	5000 W
Sensitivity (SPL/ 1W @ 1 m) [2]	94 dB	100 dB	94 dB	100 dB
Calculated Maximum SPL @ 1 m [3]	123 dB	129 dB	125 dB	131 dB
Calculated Maximum SPL @ 1 m, peak	129 dB	135 dB	131 dB	137 dB
Transducers				
Low Frequency	1 x Bose LF18 neodymium 18-inch, high-excursion woofer (4.5-inch voice coil)			
Nominal Impedance	4 ohms			
Physical				
Enclosure Material	Baltic birch plywood			
Finish	Two-part spray polyurethane coating, black			
Grill	16-gauge (1.5 mm) perforated steel, powder-coated finish, black			
Environmental	IPx4			
Connectors	2 x Neutrik® NL4 on rear, 1x NL4 front-grill mounted; all wired parallel			
Suspension / Mounting	4-point "quick pin" rigging; 4x M10 top and 4x M10 bottom inserts; 35mm pole cup			
Dimensions (H x W x D)	21.2" x30.1" x30.5" (540 x 765 x 775 mm) / W: XX side guards removed			
Net Weight	136.5 lbs (61.9 kg)			
Shipping Weight	145 lbs (65.8 kg)			
Accessories	rigging frames, ground stack bracket, short quick pins			

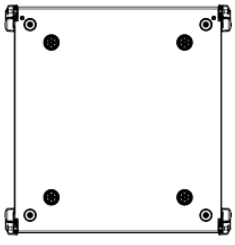
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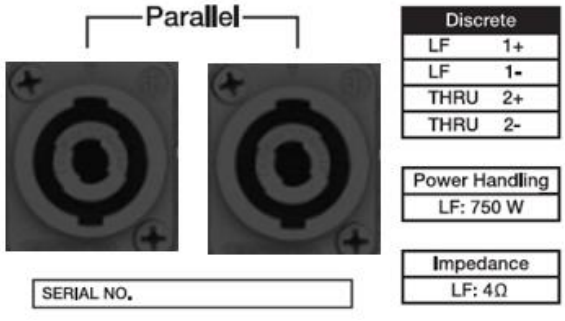
Mechanical Diagrams

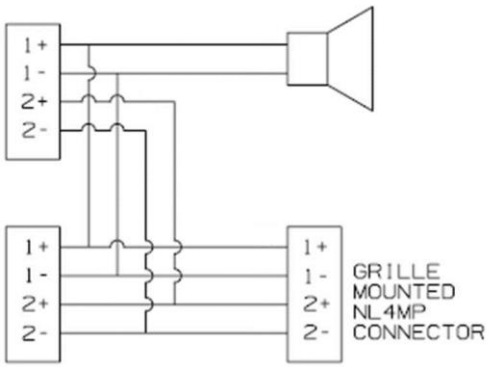




NOTES:
1. SYMBOL INDICATES CENTER OF GRAVITY
2. WEIGHT APPROX. 61.9 kg [136.5 lbs]
3. SYMBOL INDICATES QUICK PIN CONNECTION LOCATION
4. DIMENSIONS ARE IN MILIMETERS OVER INCHES
5. SYMBOL INDICATES RIGGING POINTS 4X TOP AND BOTT
M10 THREADED INSERTS

Input Panel with Wiring Diagram





Footnotes

(1) Frequency response and range measured on-axis in an anechoic environment, with recommended bandpass filter.
(2) Sensitivity measured with indicated boundary conditions with recommended bandpass filter, referenced to 1W/m.
(3) Maximum SPL calculated from sensitivity and power handling specifications, exclusive of power compression.
(4) Bose extended-lifecycle test using pink noise filtered to meet IEC268-5, 6-dB crest factor, 500-hour, full-power duration.
(5) AES standard component power handling test: pink noise 80-16000 Hz bandpass, 6-dB crest factor, 2-hour duration.

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