

DesignMax DM2C-LP

in-ceiling loudspeaker

Product Overview

DesignMax loudspeakers bring outstanding audio and aesthetics to any commercial space. Ideal for background music, the 16-watt DesignMax DM2C-LP features a 2.25-inch transducer and 85 Hz - 19 kHz frequency range. The DM2C-LP has a low-profile backcan and is ceiling-mounted, installed easily via QuickHold mounting arms. With both black and white versions available, the DM2C-LP is easy to integrate with any décor.



Key Features

Deliver instantly impressive sound with custom Bose drivers — no DSP or EQ required. For even better sound, use select Bose DSPs and amplifiers to enable Bose loudspeaker EQ and SmartBass processing, which expands performance and response at any listening level

Blend into any room design with elegant form factors, minimum-bezel grilles available in black or white, and removable logos

Reduce installation time with the patented QuickHold mounting system, which also reduces strain, hassle, and the chance of product damage

Install easily — includes Euroblock connectors; plenum-rated backcan, tile-bridge, and front-access audio wiring that makes installation and troubleshooting easier

Install in confined spaces with low-profile backcan measuring just 10 centimeters (3.9 inches) high

Amplifier Flexibility — 16 ohm feature allows for four units on a single low impedance line

Technical Specifications

SINGLE LOUDSPEAKER PERFORMANCE		
Frequency Response (-3 dB) ⁽¹⁾	95 - 18,000 Hz	
Frequency Range (-10 dB) ⁽¹⁾	85 - 19,000 Hz	
Nominal Coverage Angle ⁽²⁾	180° conical	
Nominal Coverage Angle (1 - 10 kHz)	165° conical	
	Bose extended-lifecycle test ⁽⁵⁾	AES component test ⁽⁶⁾
Power Handling, long-term continuous	16 W	20 W
Power Handling, peak	64 W	80 W
Sensitivity (SPL/ 1W @ 1 m) ⁽³⁾	84 dB	84 dB
Calculated Maximum SPL @ 1 m ⁽⁴⁾	96 dB	97 dB
Calculated Maximum SPL @ 1 m, peak	102 dB	103 dB
Loudspeaker EQ	Not Required, Bose EQ voicing and SmartBass processing available	
Recommended High-Pass Protection	85 Hz with recommended 24 dB / octave filter	
Transformer taps	70V: 1.2, 2.3, 4.5, 9 W, bypass 100V: 2.3, 4.5, 9 W, bypass	
TRANSDUCERS		
Full-Range Driver	1 x 2.25-inch woofer (57 mm)	
Nominal Impedance	16 ohms (transformer bypass)	

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PHYSICAL	
Enclosure Material	Engineered plastics front baffle with integrated steel formed backcan
Grille	Magnetically attached perforated steel, powder-coated finish, paintable, with safety-tether
Logo	Rotatable, removable
Color	Black: RAL 9005, White: Bose Arctic White, similar to RAL 9003, Paintable
Environmental	Indoor only
Safety Agency	UL-1480A, S5591/ UL Listed, in compliance with UL2043 for plenum-space installation, NFPA70 & NFPA90-A, in accordance with IEC60268-5, ROHS, CE compliant
Operating Temperature Range	0 °C to 50 °C (52 °F to 122 °F)
Connectors	Euroblock 6-pin connector with loop-through, front-baffle mounted. Accepts 18 AWG (0.8 mm ²) to 14 AWG (2.5 mm ²) size wire
Wire / Conduit Entry	Top and side wire entry point knockouts allow for for 9.5 mm (3/8 in) conduit
Suspension / Mounting	Two (2) QuickHold, spring-loaded mounting arms plus two (2) safety cable tabs
Product Dimensions (Grille Diameter × Depth)	198 × 110 mm (7.8 × 4.3 in)
Backcan Dimensions (Diameter × Depth)	156 × 99 mm (6.1 × 3.9 in), low-profile backcan
Cutout size (Diameter)	165 mm (6.5 in)
Maximum Ceiling Thickness	39 mm (1.5 in)
Net Weight, Loudspeaker with grille (single)	1.6 kg (3.6 lb)
Net Weight, Tile Bridge (single)	0.7 kg (1.6 lb)
Shipping Weight, Pair	5.9 kg (13.2 lb)
Included Accessories	Adjustable Tile-Bridge, template
Optional Accessories	Rough-in 6-pack for new construction
PRODUCT CODES	
815011-0110	DESIGNMAX DM2C-LP PAIR BLK
815011-0210	DESIGNMAX DM2C-LP PAIR WHT

Footnotes

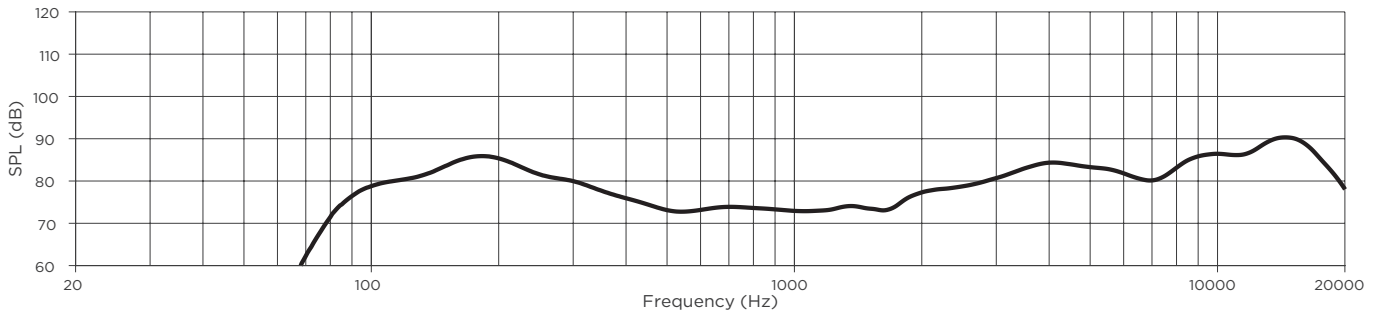
- (1) Frequency response and range measured on-axis in half-space environment with Bose EQ voicing
- (2) 1 kHz to 4 kHz average
- (3) Sensitivity measured on-axis in half-space environment with Bose EQ voicing
- (4) Maximum SPL calculated from sensitivity and power handling specifications, exclusive of power compression.
- (5) Bose extended-lifecycle test using pink noise filtered to meet IEC268-5, 6-dB crest factor, 500-hour duration.
- (6) AES standard 2-hour duration with IEC system noise

For additional specifications and application information, please visit PRO.BOSE.COM.
Specifications subject to change without notice. 11/2019

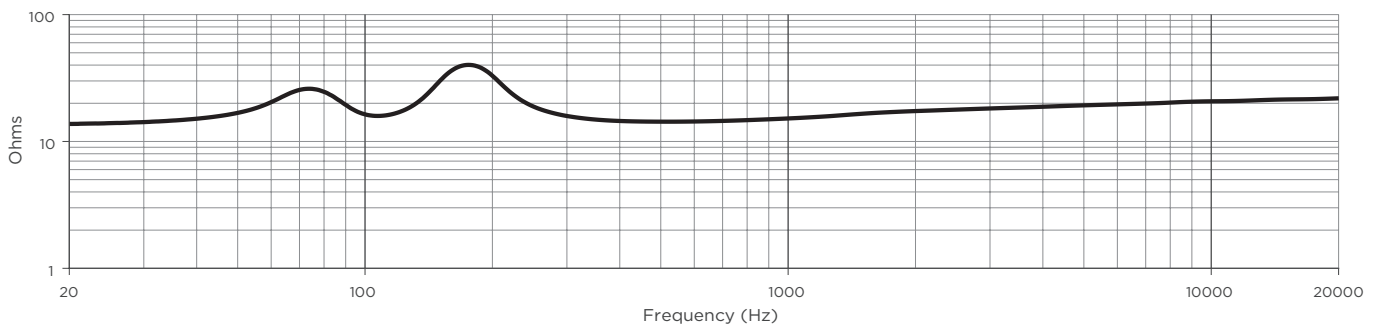
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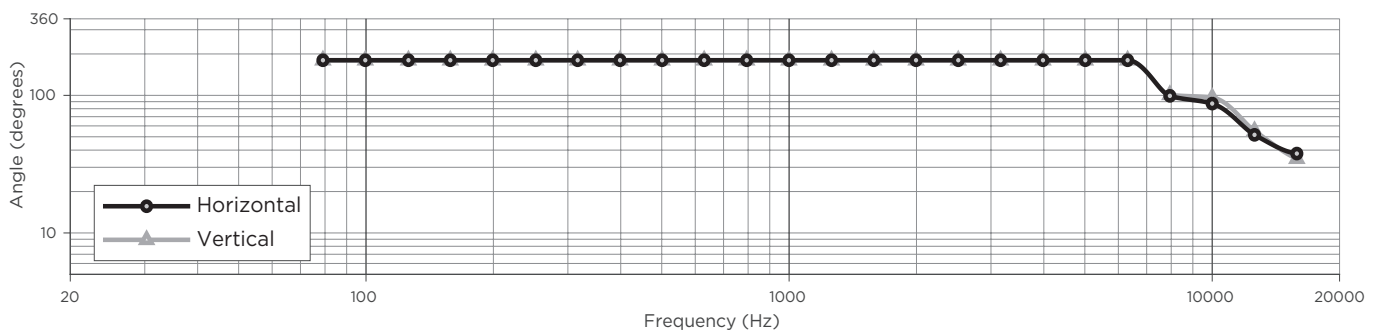
On-Axis Frequency Response (half-space (2 π) with Bose EQ voicing)



Impedance



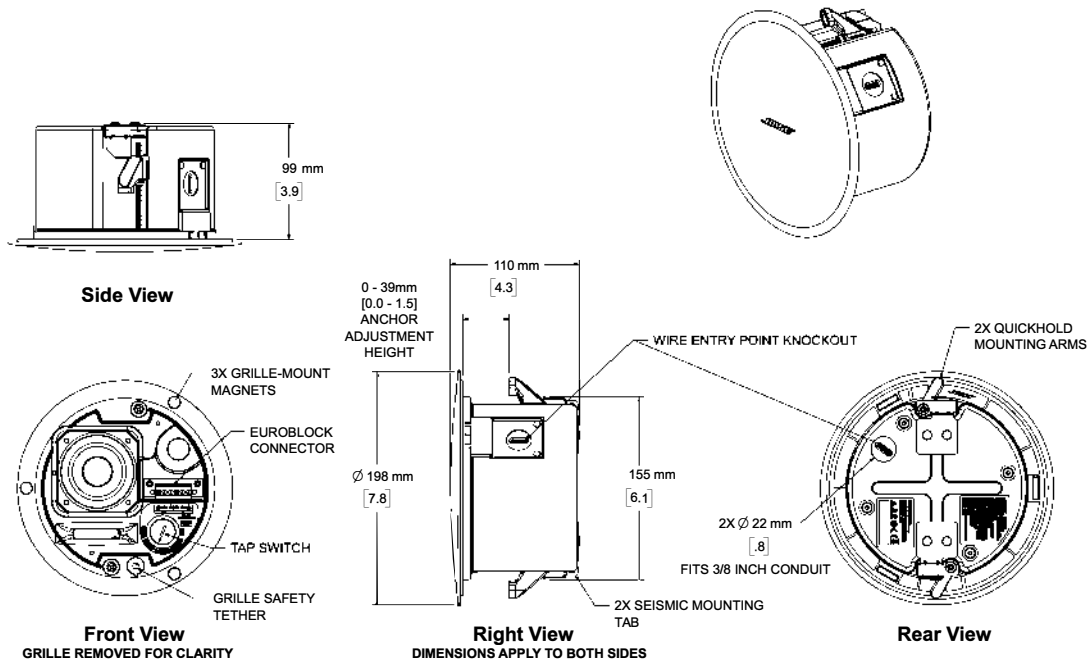
Beamwidth



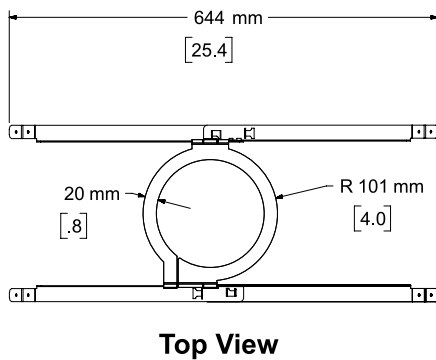
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Dimensions



NOTES:
1. DIMENSIONS ARE IN MILLIMETERS OVER INCHES
2. WEIGHT 1.63kg [3.6lbs]



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