

# DesignMax DM3C

## in-ceiling loudspeaker

### Product Overview

DesignMax loudspeakers bring outstanding audio and aesthetics to any commercial space. The 25-watt DesignMax DM3C loudspeaker features a two-way 3.25-inch woofer and ¾-inch tweeter coaxially mounted within the Dispersion Alignment system, producing a frequency range of 75 Hz - 20 kHz. The DM3C is ceiling-mounted and installs easily via QuickHold mounting arms. And with both black and white versions available, DesignMax loudspeakers integrate seamlessly 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

**Ensure a consistent listening experience** throughout the room with the Dispersion Alignment system, which matches the coverage of the woofer to the pattern of the tweeter

**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

### Technical Specifications

| SINGLE LOUDSPEAKER PERFORMANCE            |                                                                                  |                                   |
|-------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------|
| Frequency Response (-3 dB) <sup>(1)</sup> | 85 - 19,000 Hz                                                                   |                                   |
| Frequency Range (-10 dB)                  | 75 - 20,000 Hz                                                                   |                                   |
| Nominal Coverage Angle <sup>(2)</sup>     | 170° Conical                                                                     |                                   |
| Nominal Coverage Angle (1 - 10 kHz)       | 155° Conical                                                                     |                                   |
|                                           | Bose extended-lifecycle test <sup>(4)</sup>                                      | AES component test <sup>(5)</sup> |
| Power Handling, long-term continuous      | 25 W                                                                             | 30 W                              |
| Power Handling, peak                      | 100 W                                                                            | 120 W                             |
| Sensitivity (SPL/ 1W @ 1 m) (2)           | 83 dB                                                                            | 83 dB                             |
| Calculated Maximum SPL @ 1 m (3)          | 97 dB                                                                            | 98 dB                             |
| Calculated Maximum SPL @ 1 m, peak        | 103 dB                                                                           | 104 dB                            |
| Crossover                                 | 1.7 kHz (passive 2-way crossover)                                                |                                   |
| Loudspeaker EQ                            | Not Required, Bose EQ voicing and SmartBass processing available                 |                                   |
| Recommended High-Pass Protection          | 80 Hz with recommended 24 dB / octave filter                                     |                                   |
| Transformer taps                          | 70V: 3, 6, 12, 25 W, bypass<br>100V: 6, 12, 25 W, bypass                         |                                   |
| TRANSDUCERS                               |                                                                                  |                                   |
| Low Frequency                             | 1 x 3.25-inch woofer (83 mm), weather treated                                    |                                   |
| High Frequency                            | 20 mm (1 x 0.75-inch) neodymium dome tweeter, coaxially mounted, weather-treated |                                   |
| Technology                                | Dispersion Alignment system, 127 mm (5 in) system diameter                       |                                   |
| Nominal Impedance                         | 8 ohms (transformer bypass)                                                      |                                   |

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| PHYSICAL                                     |                                                                                                                                                           |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Enclosure Material                           | Engineered-plastics front baffle with integrated steel formed back can                                                                                    |
| 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 / Ingress-Protection           | 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                  | 9 to 50 °C (32 °F to 122 °F)                                                                                                                              |
| Connectors                                   | Euroblock 6-pin connector with loop-through, front-baffle mounted. Accepts 18 AWG (0.8 mm <sup>2</sup> ) to 14 AWG (2.5 mm <sup>2</sup> ) size wire       |
| Wire/Conduit Entry                           | Top and side wire entry point knockouts, allows for 9.5 mm (3/8 in) conduit                                                                               |
| Suspension / Mounting                        | Three (3) QuickHold, spring-loaded mounting arms plus three (3) safety cable tabs                                                                         |
| Maximum Ceiling Thickness                    | 39 mm (1.5 in)                                                                                                                                            |
| Product Dimensions (Grille Diameter × Depth) | 255 × 154 mm (10.0 × 6.0 in)                                                                                                                              |
| Backcan Dimensions (Diameter × Depth)        | 203 × 144 mm (8.0 × 5.7 in)                                                                                                                               |
| Cut Out Size                                 | 208 mm (8.2 in)                                                                                                                                           |
| Net Weight, Loudspeaker with grille (single) | 2.7 kg (5.9 lb)                                                                                                                                           |
| Net Weight, Tile-Bridge (single)             | 0.8 kg (1.7 lb)                                                                                                                                           |
| Shipping Weight (pair)                       | 8.7 kg (19.2 lb)                                                                                                                                          |
| Included Accessories                         | Adjustable Tile-Bridge, Template                                                                                                                          |
| Optional Accessories                         | Rough-in 6-pack                                                                                                                                           |
| PRODUCT CODES                                |                                                                                                                                                           |
| 829708-0110                                  | DESIGNMAX DM3C PAIR BLK                                                                                                                                   |
| 829708-0210                                  | DESIGNMAX DM3 PAIR WHT                                                                                                                                    |

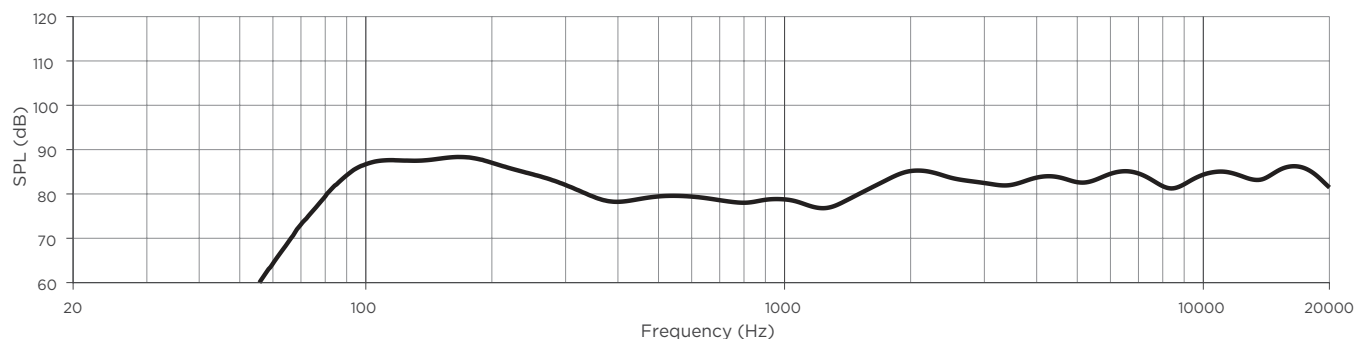
### Footnotes

- (1) Frequency response and range measured on-axis in quarter-space (wall/ceiling boundary) environment with recommended EQ  
 (2) 1 kHz to 4 kHz average  
 (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 duration.  
 (5) AES standard 2-hour duration with IEC system noise

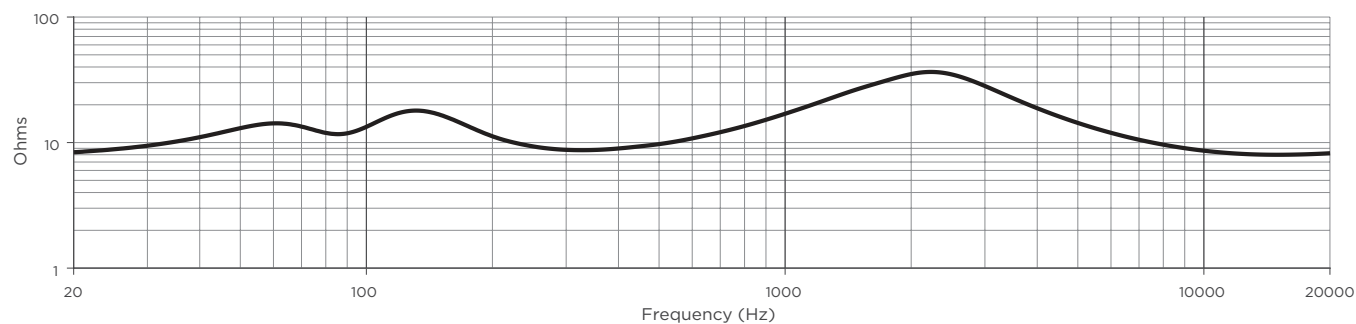
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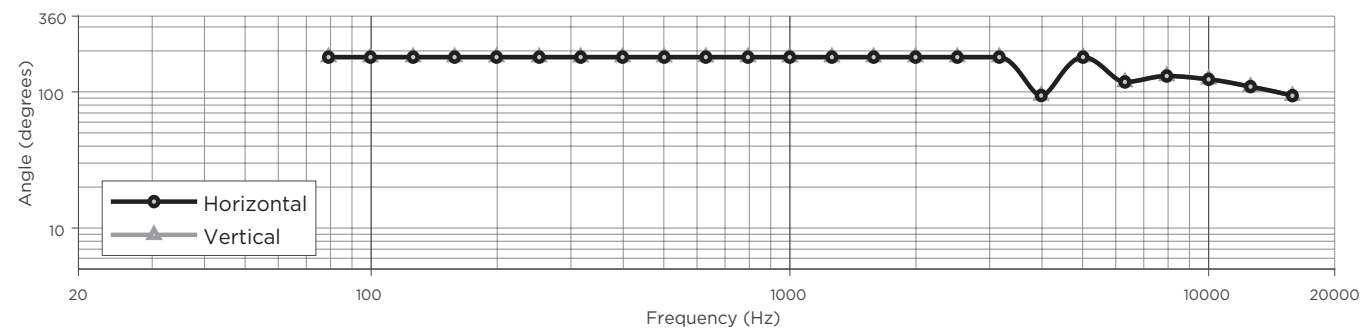
### On-Axis Frequency Response (half-space ( $2\pi$ ) with Bose EQ voicing)



### Impedance



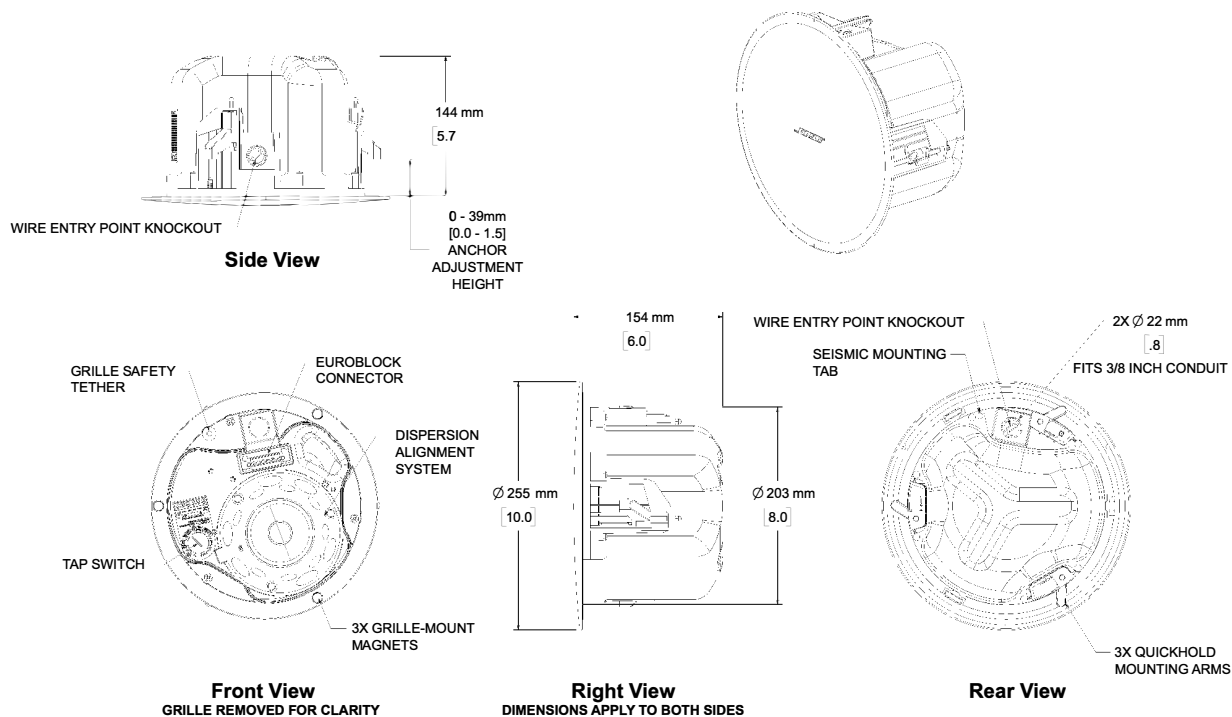
### Beamwidth



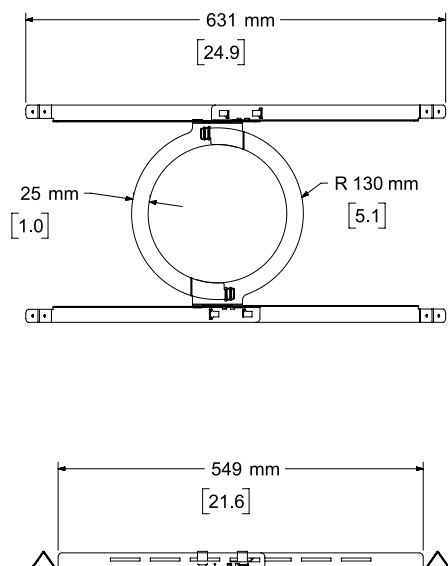
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### Dimensions



NOTES:  
1. DIMENSIONS ARE IN MILLIMETERS OVER INCHES  
2. WEIGHT 2.68kg [5.9lbs]



For additional specifications and application information, please visit [PRO.BOSE.COM](http://PRO.BOSE.COM).  
Specifications subject to change without notice. 10/2019