

# DesignMax DM5C

## in-ceiling loudspeaker

### Product Overview

DesignMax loudspeakers bring outstanding audio and aesthetics to any commercial space. The 50-watt DesignMax DM5C loudspeakers each feature a two-way 5.25-inch woofer and 1-inch tweeter coaxially mounted within the Dispersion Alignment system, producing a frequency range of 60 Hz - 20 kHz. The DM5C 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 connector, plenum-rated backcan, tile-bridge, and front-access audio wiring that makes installation and troubleshooting easier

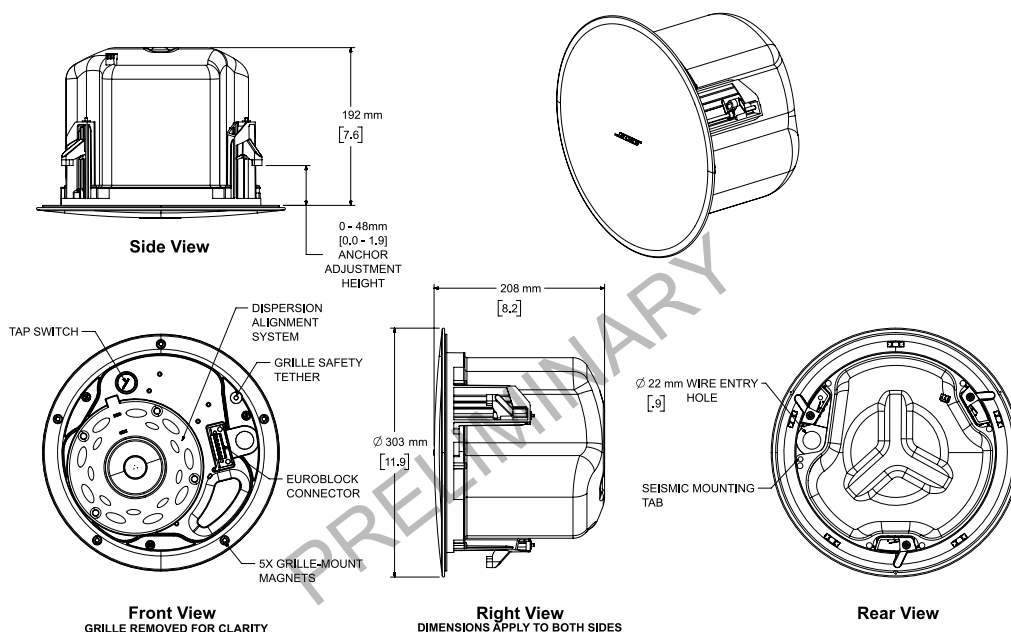
### Technical Specifications

SINGLE LOUDSPEAKER PERFORMANCE		
Frequency Response (-3 dB) <sup>1</sup>	70 - 17,000 Hz	
Frequency Range (-10 dB) <sup>1</sup>	60 - 20,000 Hz	
Nominal Coverage Angle (H x V) <sup>2</sup>	Conical	
	Bose extended-lifecycle test <sup>(5)</sup>	AES component test <sup>(6)</sup>
Power Handling, long-term continuous	50 W	60 W
Power Handling, peak	200 W	240 W
Sensitivity (SPL/ 1W @ 1 m) <sup>3</sup>	88 dB	88 dB
Calculated Maximum SPL @ 1 m <sup>4</sup>	105 dB	106 dB
Calculated Maximum SPL @ 1 m, peak	111 dB	112 dB
Crossover	1.5 kHz (passive 2-way crossover)	
Loudspeaker EQ	Not Required, Bose Voicings and SmartBass Processing available	
Recommended High-Pass Protection	60 Hz with minimum 12 dB / octave filter	
Transformer taps	70V: 3, 6, 12, 25, 50 W, bypass 100V: 6, 12, 25, 50 W, bypass	
TRANSDUCERS		
Low Frequency	1 x 5.25-inch woofer (133 mm), weather treated	
High Frequency	1 x 1-inch (25 mm) neodymium dome tweeter, coaxially mounted, weather-treated	
Technology	Dispersion Alignment system, 165mm (6.5") 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 Artic 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	0 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	Single top wire entry point knockouts, allows for 9.5 mm (3/8") conduit
Suspension / Mounting	Three (3) QuickHold, spring-loaded mounting arms plus three (3) safety cable tabs
Maximum Ceiling Thickness	TBD
Product Dimensions (Grille Diameter x Depth)	202 x 302.7 mm (11.9" x 8")
Backcan Dimensions (Diameter x Depth)	192 x 243.9 mm (9.6" x 7.6")
Ceiling Cutout	192 mm (9.6")
Net Weight	TBD
Shipping Weight	TBD
Included Accessories	Adjustable Tile-Bridge, Template
Optional Accessories	Rough-in 6-pack
PRODUCT CODES	
829683-0110	DM5C DesignMax DESIGNMAX, DM5C, PAIR, BLK
829683-0210	DM5C DesignMax DESIGNMAX, DM5C, 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) Sensitivity measured on-axis in quarter-space (wall/ceiling boundary) environment with recommended EQ
- (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](http://PRO.BOSE.COM).  
Specifications subject to change without notice. 01/2019

- NOTES:
1. DIMENSIONS ARE IN MILLIMETERS OVER INCHES
  2. WEIGHT APPROX xx.xkg [xx.xlbs] (SPEAKER ONLY)  
WEIGHT W/BRAKET xx.xkg [xx.xlbs]