

CM62-BGM-II

In-Ceiling Background Music Speaker



CM62-BGM-II PRODUCT SPECIFICATIONS

Impedance (Nominal) ¹ Sensitivity dB @ 2.83 W1 M 81.4 dB Sensitivity dB @ 1 W/1 M ² 84.5 dB Frequency Response (±3 dB) ³ 54 Hz - 20 kHz Frequency Response (±10 dB) ³ 50 Hz - 22 kHz Max. Program Power ⁴ 100 W Max Continuous Power RMS ° 50 W Max. Power SPL @ 1 M ° Max. Power SPL @ 4 M 88.9 dB Coverage Angle (±6 dB @ 2 kHz) Coverage Angle (±6 dB @ 10 kHz) Directivity Factor (0) 5.9 (Averaged 100 Hz - 10 kHz) I 8.3 dB (2 kHz) Directivity Index (DI) 1ap Selector Transducer: Low-Frequency Driver ITransducer: High-Frequency Driver Itransducer: High-Frequency Driver Itransducer: High-Frequency Driver Itransducer: High-Frequency Driver Low-Frequency Voice Coil 25.4 mm (1") silk dome tweeter with BroadBeam Ring " Low-Frequency Voice Coil 25.4 mm (1") silk dome tweeter with BroadBeam Ring " Low-Frequency Voice Coil 25.4 mm (1 ") Crossover Frequency 4 kHz Network Type: Low Pass 12 dB per octave, 2nd order Network Type: High Pass 6 dB per octave, 1st order Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height Visible Diameter 298.5 mm 11.8" Visible Diameter Min Max Coiling Thickness 10 kHz Mounting Hole Diameter Min Max Coiling Thickness 10 kHz Mounting Hole Diameter Min Max Coiling Thickness 10 kHz Max Coiling Thickness 10 kHz 266.7 mm 10.5" Min Max Coiling Thickness 10 kHz 10 kHz	System Type	$6.5\ensuremath{\text{"}}$ coaxial, in-ceiling, ported (32 W transformer for 25/70.7/100 V or transformer bypass)			
Frequency Response (±3 dB) ³ 54 Hz - 20 kHz Frequency Response (±10 dB) ³ 50 Hz - 22 kHz Max. Program Power ⁴ 100 W Max Continuous Power RMS ⁵ 50 W Max. Power SPL ② 1 M ° 101.5 dB Max. Power SPL ③ 1 M ° 88.9 dB Coverage Angle (±6 dB @ 2 kHz) 115° Coverage Angle (±6 dB @ 10 kHz) 115° Directivity Factor (0) 5.9 (Averaged 100 Hz - 10 kHz) 8 (2 kHz) Directivity Index (DI) 4.9 dB (Averaged 100 Hz - 10 kHz) 6.3 dB (2 kHz) Tap Selector Six-position rotary switch with transformer bypass position Transducer: Low-Frequency Driver 16.5 mm (6.5") polypropylene cone, rubber surround Transducer: High-Frequency Driver 25.4 mm 1" Crossover Frequency Voice Coil 25.4 mm 1" Crossover Frequency Voice Coil 25.4 mm 1" Crossover Frequency Driver 25.4 mm 1 m 5 order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 24.5 mm 1.8" Visible Diameter 298.5 mm 11.8" Visible Diameter 298.5 mm 11.8" Visible Diameter 266.7 mm 10.5"	Impedance (Nominal) ¹	16 Ω			
Frequency Response (±3 dB) ³ 50 Hz - 20 kHz Frequency Response (±10 dB) ³ 50 Hz - 22 kHz Max. Program Power ⁴ 100 W Max Continuous Power RMS ⁵ 50 W Max. Power SPL @ 1 M ⁶ 101.5 dB Max. Power SPL @ 4 M 88.9 dB Coverage Angle (±6 dB @ 2 kHz) 40° Coverage Angle (±6 dB @ 10 kHz) 115° Directivity Factor (Q) 5.9 (Averaged 100 Hz - 10 kHz) 8 (2 kHz) Directivity Index (DI) 4.9 dB (Averaged 100 Hz - 10 kHz) 6.3 dB (2 kHz) Tap Selector Six-position rotary switch with transformer bypass position Transducer: Low-Frequency Driver 16.5 mm (6.5") polypropylene cone, rubber surround Transducer: High-Frequency Driver 25.4 mm 1" Crossover Frequency Voice Coil 25.4 mm 1" Crossover Frequency Wise Coil 25.4 mm 1" Crossover Frequency A kHz Network Type: Low Pass 12 dB per octave, 2nd order 6 dB per octave, 1st order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Diameter 298.5 mm 11.8" Visible Height 8.6 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5"	Sensitivity dB @ 2.83 V/1 M	81.4 dB			
Frequency Response (±10 dB)³ 50 Hz - 22 kHz Max. Program Power ⁴ 100 W Max Continuous Power RMS⁵ 50 W Max. Power SPL ② 1 M ⁰ 101.5 dB Max. Power SPL ② 4 M 88.9 dB Coverage Angle (±6 dB ② 2 kHz) 180° Coverage Angle (Averaged 2-10 kHz) 115° Directivity Factor (0) 5.9 (Averaged 100 Hz - 10 kHz) 8 (2 kHz) Directivity Index (DI) 4.9 dB (Averaged 100 Hz - 10 kHz) 6.3 dB (2 kHz) Tap Selector Six-position rotary switch with transformer bypass position Transducer: Low-Frequency Driver 165 mm (6.5") polypropylene cone, rubber surround Transducer: High-Frequency Driver 25.4 mm (1") silk dome tweeter with BroadBeam Ring™ Low-Frequency Voice Coil 25.4 mm 1" Crossover Frequency 4 kHz Network Type: High Pass 12 dB per octave, 2nd order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Height 8.6 mm 0.34" M	Sensitivity dB @ 1 W/1 M ²	84.5 dB			
Max. Program Power 4 100 W Max. Power SPL @ 1 M ° 101.5 dB Max. Power SPL @ 4 M 88.9 dB Coverage Angle (±6 dB @ 2 kHz) 180° Coverage Angle (Averaged 2-10 kHz) 115° Directivity Factor (0) 5.9 (Averaged 100 Hz - 10 kHz) 8 (2 kHz) Directivity Index (DI) 4.9 dB (Averaged 100 Hz - 10 kHz) 6.3 dB (2 kHz) Tap Selector Six-position rotary switch with transformer bypass position Transducer: Low-Frequency Driver 165 mm (6.5") polypropylene cone, rubber surround Transducer: High-Frequency Driver 25.4 mm (1") silk dome tweeter with BroadBeam Ring™ Low-Frequency Voice Coil 25.4 mm 1 " Crossover Frequency 4 kHz Network Type: Low Pass 12 dB per octave, 2nd order Network Type: High Pass 6 dB per octave, 1st order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Height 8.6 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5" </th <th>Frequency Response (±3 dB) ³</th> <th>54 Hz - 20 kHz</th>	Frequency Response (±3 dB) ³	54 Hz - 20 kHz			
Max Continuous Power RMS 5 50 W Max. Power SPL @ 1 M 6 101.5 dB Max. Power SPL @ 4 M 88.9 dB Coverage Angle (±6 dB @ 2 kHz) 180° Coverage Angle (4c6 dB @ 10 kHz) 40° Coverage Angle (Averaged 2-10 kHz) 115° Directivity Factor (0) 5.9 (Averaged 100 Hz - 10 kHz) 8 (2 kHz) Directivity Index (DI) 4.9 dB (Averaged 100 Hz - 10 kHz) 6.3 dB (2 kHz) Tap Selector Six-position rotary switch with transformer bypass position Transducer: Low-Frequency Driver 165 mm (6.5") polypropylene cone, rubber surround Transducer: High-Frequency Driver 25.4 mm (1") silk dome tweeter with BroadBeam Ring™ Low-Frequency Voice Coil 25.4 mm 1" Crossover Frequency 4 kHz Network Type: Low Pass 12 dB per octave, 2nd order Network Type: High Pass 6 dB per octave, 1st order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Beight 8.6 mm 0.34"	Frequency Response (±10 dB) ³	50 Hz - 22 kHz			
Max. Power SPL @ 1 M ° 101.5 dB Max. Power SPL @ 4 M 88.9 dB Coverage Angle (±6 dB @ 2 kHz) 180° Coverage Angle (±6 dB @ 10 kHz) 40° Coverage Angle (Averaged 2-10 kHz) 115° Directivity Factor (0) 5.9 (Averaged 100 Hz - 10 kHz) 8 (2 kHz) Directivity Index (DI) 4.9 dB (Averaged 100 Hz - 10 kHz) 6.3 dB (2 kHz) Tap Selector Six-position rotary switch with transformer bypass position Transducer: Low-Frequency Driver 165 mm (6.5") polypropylene cone, rubber surround Transducer: High-Frequency Driver 25.4 mm (1") silk dome tweeter with BroadBeam Ring™ Low-Frequency Voice Coil 25.4 mm 1" Crossover Frequency 4 kHz Network Type: Low Pass 12 dB per octave, 2nd order Network Type: High Pass 6 dB per octave, 1st order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Biameter 298.5 mm 11.8" Visible Diameter 266.7 mm 10.5" <th>Max. Program Power ⁴</th> <th>100 W</th>	Max. Program Power ⁴	100 W			
Max. Power SPL @ 4 M 88.9 dB Coverage Angle (±6 dB @ 10 kHz) 40° Coverage Angle (Averaged 2-10 kHz) 115° Directivity Factor (Q) 5.9 (Averaged 100 Hz - 10 kHz) 8 (2 kHz) Directivity Index (DI) 4.9 dB (Averaged 100 Hz - 10 kHz) 6.3 dB (2 kHz) Tap Selector Six-position rotary switch with transformer bypass position Transducer: Low-Frequency Driver 165 mm (6.5") polypropylene cone, rubber surround Transducer: High-Frequency Driver 25.4 mm (1") silk dome tweeter with BroadBeam Ring™ Low-Frequency Voice Coil 25.4 mm 1" Crossover Frequency 4 kHz Network Type: Low Pass 12 dB per octave, 2nd order Network Type: High Pass 6 dB per octave, 1st order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Diameter 298.5 mm 11.8" Visible Height 8.6 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5"	Max Continuous Power RMS 5	50 W			
Coverage Angle (±6 dB @ 2 kHz) Coverage Angle (±6 dB @ 10 kHz) Directivity Factor (Q) 5.9 (Averaged 100 Hz - 10 kHz) 8 (2 kHz) Directivity Index (DI) 4.9 dB (Averaged 100 Hz - 10 kHz) 6.3 dB (2 kHz) Tap Selector Six-position rotary switch with transformer bypass position Transducer: Low-Frequency Driver Transducer: High-Frequency Driver Low-Frequency Voice Coil Crossover Frequency 4 kHz Network Type: Low Pass 12 dB per octave, 2nd order Network Type: High Pass 6 dB per octave, 1st order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 298.5 mm 11.8" Visible Diameter 266.7 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5"	Max. Power SPL @ 1 M ⁶	101.5 dB			
Coverage Angle (±6 dB @ 10 kHz) Coverage Angle (Averaged 2-10 kHz) Directivity Factor (Q) 5.9 (Averaged 100 Hz - 10 kHz) 8 (2 kHz) Directivity Index (DI) 4.9 dB (Averaged 100 Hz - 10 kHz) 6.3 dB (2 kHz) Tap Selector Six-position rotary switch with transformer bypass position Transducer: Low-Frequency Driver 165 mm (6.5") polypropylene cone, rubber surround Transducer: High-Frequency Driver 25.4 mm (1") silk dome tweeter with BroadBeam Ring™ Low-Frequency Voice Coil 25.4 mm 1" Crossover Frequency 4 kHz Network Type: Low Pass 12 dB per octave, 2nd order Network Type: High Pass 6 dB per octave, 1st order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Diameter 298.5 mm 11.8" Visible Height 8.6 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5"	Max. Power SPL @ 4 M	88.9 dB			
Coverage Angle (Averaged 2-10 kHz) 115° Directivity Factor (Q) 5.9 (Averaged 100 Hz - 10 kHz) 8 (2 kHz) Directivity Index (DI) 4.9 dB (Averaged 100 Hz - 10 kHz) 6.3 dB (2 kHz) Tap Selector Six-position rotary switch with transformer bypass position Transducer: Low-Frequency Driver 165 mm (6.5") polypropylene cone, rubber surround Transducer: High-Frequency Driver 25.4 mm (1") silk dome tweeter with BroadBeam Ring™ Low-Frequency Voice Coil 25.4 mm 1" Crossover Frequency 4 kHz Network Type: Low Pass 12 dB per octave, 2nd order Network Type: High Pass 6 dB per octave, 1st order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Diameter 298.5 mm 11.8" Visible Height 8.6 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5"	Coverage Angle (±6 dB @ 2 kHz)	180°			
Directivity Factor (Q) 5.9 (Averaged 100 Hz - 10 kHz) 8 (2 kHz) Directivity Index (DI) 4.9 dB (Averaged 100 Hz - 10 kHz) 6.3 dB (2 kHz) Tap Selector Six-position rotary switch with transformer bypass position Transducer: Low-Frequency Driver Transducer: High-Frequency Driver Low-Frequency Voice Coil 25.4 mm (1") silk dome tweeter with BroadBeam Ring™ Low-Frequency Voice Coil 25.4 mm 1" Crossover Frequency 4 kHz Network Type: High Pass 6 dB per octave, 2nd order Network Type: High Pass 6 dB per octave, 1st order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Diameter 298.5 mm 11.8" Visible Height 8.6 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5"	Coverage Angle (±6 dB @ 10 kHz)	40°			
Directivity Index (DI) 4.9 dB (Averaged 100 Hz - 10 kHz) 6.3 dB (2 kHz) Tap Selector Six-position rotary switch with transformer bypass position Transducer: Low-Frequency Driver 165 mm (6.5") polypropylene cone, rubber surround Transducer: High-Frequency Driver 25.4 mm (1") silk dome tweeter with BroadBeam Ring™ Low-Frequency Voice Coil 25.4 mm 1" Crossover Frequency 4 kHz Network Type: Low Pass 12 dB per octave, 2nd order Network Type: High Pass 6 dB per octave, 1st order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Diameter 298.5 mm 11.8" Visible Height 8.6 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5"	Coverage Angle (Averaged 2-10 kHz)	115°			
Tap Selector Transducer: Low-Frequency Driver Transducer: High-Frequency Driver Low-Frequency Voice Coil Crossover Frequency 12 dB per octave, 2nd order Network Type: Low Pass Network Type: High Pass 6 dB per octave, 1st order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4 de.1 mm 9.6" Backcan Diameter 245.6 mm 9.6" Visible Diameter 298.5 mm 11.8" Visible Height Mounting Hole Diameter 266.7 mm 10.5"	Directivity Factor (Q)	5.9 (Averaged 100 Hz - 10 kHz) 8 (2 kHz)			
Transducer: Low-Frequency Driver Transducer: High-Frequency Driver Low-Frequency Voice Coil Crossover Frequency 4 kHz Network Type: Low Pass 12 dB per octave, 2nd order Network Type: High Pass 6 dB per octave, 1st order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Diameter 298.5 mm 11.8" Visible Height 8.6 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5"	Directivity Index (DI)	4.9 dB (Averaged 100 Hz - 10 kHz) 6.3 dB (2 kHz)			
Transducer: High-Frequency Driver Low-Frequency Voice Coil 25.4 mm 1" Crossover Frequency 4 kHz Network Type: Low Pass 12 dB per octave, 2nd order Network Type: High Pass 6 dB per octave, 1st order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Diameter 298.5 mm 11.8" Visible Height 8.6 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5"	Tap Selector	Six-position rotary switch with transformer bypass position			
Low-Frequency Voice Coil25.4 mm 1"Crossover Frequency4 kHzNetwork Type: Low Pass12 dB per octave, 2nd orderNetwork Type: High Pass6 dB per octave, 1st orderEnclosure MaterialDrawn steel backcan with ABS baffleGrillePowder-coated plated steel seamless magneticInputs4-position ceramic terminal connectorBackcan Diameter245.6 mm 9.6"Backcan Height146.1 mm 5.75"Visible Diameter298.5 mm 11.8"Visible Height8.6 mm 0.34"Mounting Hole Diameter266.7 mm 10.5"	Transducer: Low-Frequency Driver	165 mm (6.5") polypropylene cone, rubber surround			
Crossover Frequency Network Type: Low Pass 12 dB per octave, 2nd order Network Type: High Pass 6 dB per octave, 1st order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Diameter 298.5 mm 11.8" Visible Height 8.6 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5"	Transducer: High-Frequency Driver	25.4 mm (1") silk dome tweeter with BroadBeam Ring™			
Network Type: Low Pass12 dB per octave, 2nd orderNetwork Type: High Pass6 dB per octave, 1st orderEnclosure MaterialDrawn steel backcan with ABS baffleGrillePowder-coated plated steel seamless magneticInputs4-position ceramic terminal connectorBackcan Diameter245.6 mm 9.6"Backcan Height146.1 mm 5.75"Visible Diameter298.5 mm 11.8"Visible Height8.6 mm 0.34"Mounting Hole Diameter266.7 mm 10.5"	Low-Frequency Voice Coil	25.4 mm 1"			
Network Type: High Pass 6 dB per octave, 1st order Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Diameter 298.5 mm 11.8" Visible Height 8.6 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5"	Crossover Frequency	4 kHz			
Enclosure Material Drawn steel backcan with ABS baffle Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Diameter 298.5 mm 11.8" Visible Height 8.6 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5"	Network Type: Low Pass	12 dB per octave, 2nd order			
Grille Powder-coated plated steel seamless magnetic Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Diameter 298.5 mm 11.8" Visible Height 8.6 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5"	Network Type: High Pass	6 dB per octave, 1st order			
Inputs 4-position ceramic terminal connector Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Diameter 298.5 mm 11.8" Visible Height 8.6 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5"	Enclosure Material	Drawn steel backcan with ABS baffle			
Backcan Diameter 245.6 mm 9.6" Backcan Height 146.1 mm 5.75" Visible Diameter 298.5 mm 11.8" Visible Height 8.6 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5"	Grille	Powder-coated plated steel seamless magnetic			
Backcan Height 146.1 mm 5.75" Visible Diameter 298.5 mm 11.8" Visible Height 8.6 mm 0.34" Mounting Hole Diameter 266.7 mm 10.5"	Inputs	4-position ceramic terminal connector			
Visible Diameter298.5 mm 11.8"Visible Height8.6 mm 0.34"Mounting Hole Diameter266.7 mm 10.5"	Backcan Diameter	245.6 mm 9.6"			
Visible Height8.6 mm 0.34"Mounting Hole Diameter266.7 mm 10.5"	Backcan Height	146.1 mm 5.75"			
Mounting Hole Diameter 266.7 mm 10.5"	Visible Diameter	298.5 mm 11.8"			
	Visible Height	8.6 mm 0.34"			
Min - May Ceiling Thickness 0.9 mm 0.35" - 40.6 mm 1.6"	Mounting Hole Diameter	266.7 mm 10.5"			
0.0	Min - Max Ceiling Thickness	0.9 mm .035" - 40.6 mm 1.6"			
Weight 3.6 kg 8 lbs	Weight	3.6 kg 8 lbs			
Packaging One per box	Packaging	One per box			
Included Accessories Tile bridge, UL-listed flex conduit clamp	Included Accessories	Tile bridge, UL-listed flex conduit clamp			
Optional Accessories Black Grille, Pre-construction bracket (AC-CMEZ-6/8-PCB)	Optional Accessories	Black Grille, Pre-construction bracket (AC-CMEZ-6/8-PCB)			
IP-Rating IPX3	IP-Rating	IPX3			
Certifications UL1480, UL2043, CE, RoHS, EN54	Certifications	UL1480, UL2043, CE, RoHS, EN54			

Description

The CM62-BGM is a 6.5° coaxial two-way blindmount in-ceiling speaker which delivers true highefficiency and performance across the operating bandwidth. By incorporating a 6.5° polypropylene driver with a rubber surround and a 1° silk dome tweeter in a drawn steel backcan with a tuned port, this speaker delivers maximum frequency response (50~Hz - 22~kHz, $\pm 10~\text{dB}$) in an integrated enclosure design.

Mounting hardware is included and features a constant-tension fixed-wing mounting system with a 21-gauge "full metal" steel tile bridge ensuring rapid and secure installation in any sheetrock or drop-tile application. For easy ordering, stocking and installation, this series includes a color-coded (green) tile bridge and optional color-coded (green) pre-construction bracket, as well as a six-position tap switch for 25, 70.7 and 100 V applications with a transformer bypass position.

Features

- One 6.5" (165 mm) polypropylene woofer with rubber surround and one 1" (25.4 mm) silk dome tweeter
- BroadBeam Ring[™] technology for mid-range clarity and ultra wide off axis performance
- Easy-access six-position tap switch for 25/70.7/100 V and transformer bypass settings allows for easy ordering, stocking and installation
- Tuned port on baffle for added musicality and bass response down to 50 Hz (±10 dB)
- Reduced amplification costs and maximum efficiency of 85 dB sensitivity, 16 Ω impedance
- Incorporates a steel flangeless magnetic grille for lasting durability and seamless aesthetic (White grille default, but also available in Black)
- Adaptable to material thicknesses ranging from 0.035" | 0.9 mm to 1.6" | 40.6 mm
- UL1480 and 2043 approved
- Included accessories: tile bridge, UL listed 0.5 inch conduit clamp
- Optional accessories: Color-coded (green) preconstruction bracket (AC-CMEZ-6/8-PCB)

¹ Impedance listed per IEC 60268-5

² 1 W/ 1 M sensitivity determined using nominal impedance

³ Frequency response measured in half or full space as dictated by speaker mounting configuration

⁴ Max program power is 3 dB above max continuous power

 $^{^{\}mbox{\tiny 5}}$ Continuous power rating, EIA-426-B test

⁶ Max output based on max continuous power



CM62-BGM-II

In-Ceiling Background Music Speaker

Transformer Taps

70.7 V	Output	100 V	Output	25 V	Output
32 W	99.5 dB	32 W	99.5 dB	4 W	90.5 dB
16 W	96.5 dB	16 W	96.5 dB	2 W	87.5 dB
8 W	93.5 dB	8 W	90.5 dB	1 W	84.5 dB
4 W	90.5 dB	4 W	87.5 dB	0.5 W	81.5 dB
2 W	87.5 dB			0.3 W	78.5 dB

Applications

Developed specifically for paging and background music applications where cost, quality and fit are paramount, the CM62-BGM-II is ideal for hotels, education, hospitals, retail stores, restaurants, airports, churches or boardrooms. Indeed, the entire CM-BGM-II series is engineered for installations where high-efficiency, added bass response, and rapid installation are critical attributes. For applications requiring additional bass response, SoundTube's CM1001d subwoofer provides true low-end response down to 41 Hz.

Patented Technologies

SoundTube, an MSE Audio brand, constantly develops new technologies which enhance audio product performance. SoundTube Entertainment innovations are protected by multiple U.S. and international patents, which explicitly cover SoundTube dome, enclosure and dispersion technologies. MSE Audio actively defends its patents in order to protect resellers and consumers.

Technical Data and Specification Tools

SoundTube Entertainment strives to provide complete and effective technical information and data to dealers, engineers and designers. All data is available from SoundTube Entertainment or at www.soundtube.com.

Technical data and downloads include:

- EASE[™] data 3-D polar plots.
- EASE[™] Address 2-D modeling for distributed systems
- AutoDesk® Revit® software
- Tech Sheets technical information and architectural specs for system engineers
- SoundTubeSPEC[™] Proprietary speaker placement software

Architectural Specifications

The loudspeaker shall consist of one 165 mm (6.5") low-frequency transducer and one 25 mm (1.0") high-frequency transducer with a frequency dividing network installed in a sealed enclosure. The low-frequency voice coil diameter shall be 25.4 mm (1.0"). The low-frequency transducer shall have a polypropylene cone material with a rubber surround.

The high-frequency transducer shall be constructed of silk material using a balanced-dome configuration.

Performance specifications of a typical production unit shall be as follows: Usable frequency range shall extend from 50~Hz - 22~kHz ($\pm 10~dB$). The loudspeaker shall be available with selectable 25/70.7/100~V and transformer bypass tap switch. The frequency dividing network shall have a crossover frequency of 4 kHz. Rated power capacity of the components and network shall be at least 50~watts continuous RMS and conform to EIA-426-B testing. Maximum continuous output at 1 meter shall be at least 101.5~dB.

The backcan shall be constructed of galvanized steel with an ABS plastic baffle. The grille shall be constructed of powder-coated plated steel. Shipped complete with UL-listed ex conduit connector, color coded tile bridge (to match color-coded backcan), and grille. The integrated in-ceiling speaker is engineered for high performance and rapid installation in plenum spaces. The unit incorporates three additional attachment points for added security, or where required by code.

Installation for the speaker shall be by two-screw blind-mount constanttension fixed-wing assembly and shall attach to ceiling thicknesses ranging from 0.035" to 1.6". The external wiring shall be via 4-position ceramic terminal strip, accepting up to 8-gauge wire.

The maximum backcan dimension shall be no more than 146.1 mm (5.75") in height by 245.6 mm (9.67") in diameter. The maximum visible dimensions shall be no more than 8.6 mm (0.34") in height by 298.5 mm (11.75") in diameter. The unit is factory preset to the 32 W setting in the 70.7 V operating mode, with a tap switch located on the front baffle.

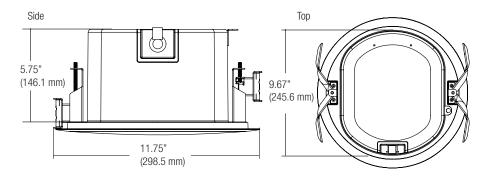
The system shall be the SoundTube CM62-BGM-II for both low- and high-impedance applications.

SoundTube®

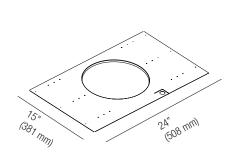
13720 W. 109th St. Lenexa, KS 66215 Phone: 913.663.5600 Fax: 913.663.3200 Toll Free: 855.663.5600 www.mseaudio.com

All SoundTube speakers come with a 5-year limited warranty and 3-year warranty on all electronics

Mechanical Drawings



Optional Accessories

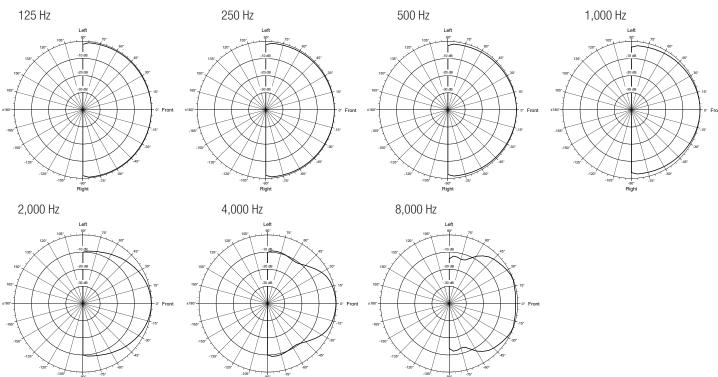


Pre-Construction Bracket (AC-CMEZ-6/8-PCB)

Included Accessories 23.55" (598.25 mm) 15.11" (383.86 mm) (269.24 mm)

Tile Bridge

Plots





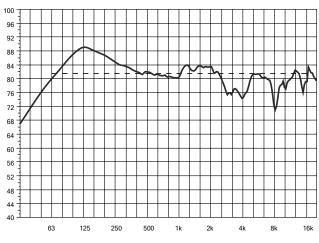
CM62-BGM-II

In-Ceiling Background Music Speaker

Graphs

Frequency Response

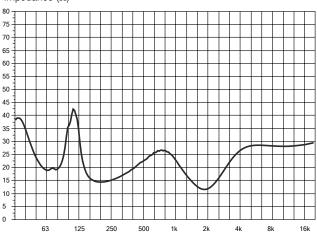




Frequency (Hz)

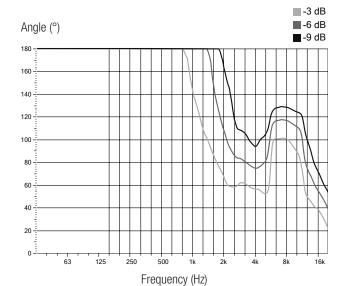
Phase/Impedance Response

Impedance (Ω)



Frequency (Hz)

Vertical Bandwidth



Directivity Index (DI)

Level (dB)

