

## Specifications

### CA 163 Column Array Loudspeaker

#### Audio/acoustic and electrical

Speaker type .....	Columnar line array speaker in extruded aluminum enclosure
Frequency range .....	105 Hz to 20 kHz, -10 dB, full space (per IEC 60268-5)
Frequency response .....	200 Hz to 16 kHz, -3 dB, full space
Power capacity .....	240 W (rms) continuous pink noise (per IEC 60268-5) 480 W (rms) continuous program
Maximum SPL	
Low-impedance version .....	118 dB, 1 m, full space
High-impedance version	
70 V.....	91 dB, 1 m, full space
100 V.....	94 dB, 1 m, full space
Nominal sensitivity	
Low-impedance version .....	93 dB SPL, 1 W, 1 m, 6.5 ohms direct, full space (per IEC 60268-5)
High-impedance version.....	83 dB SPL, 1 W, 1 m, 50 ohms direct, full space (per IEC 60268-5)
Nominal coverage angle (-6 dB, 1/3 octave, 4m)	
500 Hz .....	180° H x 38° V
1000 Hz .....	180° H x 20° V
2000 Hz .....	155° H x 14° V
4000 Hz .....	178° H x 18° V
Nominal impedance	
Low-impedance version .....	6.5 ohms
High-impedance version .....	50 ohms
Drivers .....	(16) 3" (76 mm) paper cone
Input connector .....	(1) 5 mm captive screw connector, 4 pole for 1 input and 1 loop-through

#### General

Package .....	1 speaker
Temperature/humidity	
Storage: .....	-40 to +158°F (-40 to +70°C) / 10% to 90%, noncondensing
Operating: .....	+32 to +122°F (0 to +50°C) / 10% to 90%, noncondensing
Mounting .....	SMK PT CA Pan-Tilt mount or SMK LP CA Low-Profile mount (Ships separately from speaker)
Adjustment range – SMK PT CA	
Mount at bottom position:	
Pan:	
At 15° tilt .....	+/- 53.5°, horizontal
At 0° tilt .....	+/- 73.5°, horizontal
Tilt: .....	0 to -15°, vertical
Mount at center position:	
Pan:	
At 5° tilt .....	+/- 63°, horizontal
At 0° tilt .....	+/- 73.5°, horizontal
Tilt: .....	0 to -5°, vertical
Adjustment range – SMK LP CA	
Tilt: .....	+/-5°, vertical

## Specifications • CA 163 Column Array Loudspeaker (Continued)

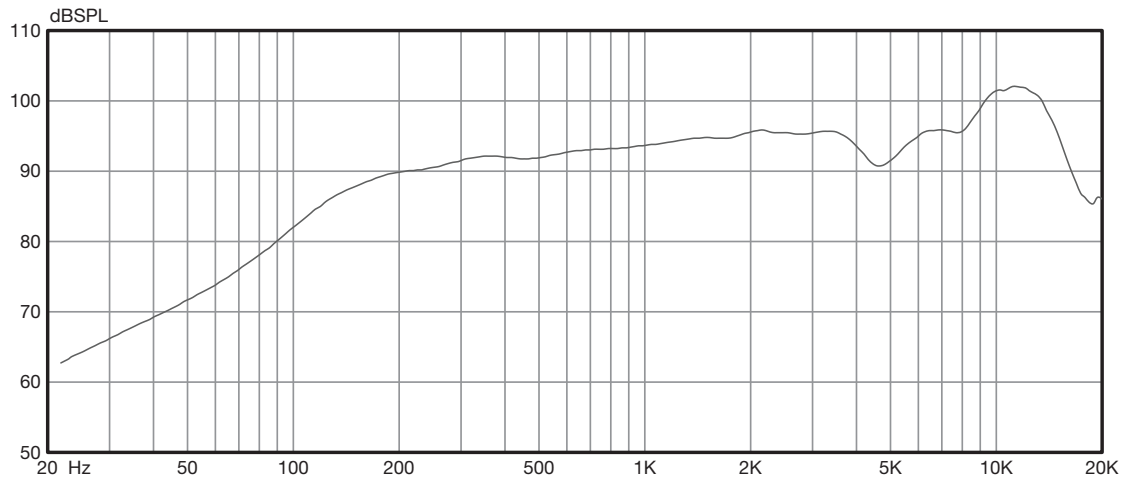
Enclosure type .....	Powder-coated aluminum extrusion with zinc die-cast endcaps and powder-coated steel grille
Enclosure Finish	
Black speaker.....	Powder coat, RAL 9011 (chassis), RAL 9017 (endcaps & grille)
White speaker .....	Powder coat, RAL 9003 (chassis, endcaps, & grille)
Enclosure outer dimensions .....	51.9" H x 5.0" D x 4.5" W (1318 mm x 127 mm x 114 mm)
Product weight	
Speaker.....	27.6 lbs (12.5 kg)
SMK PT CA mount.....	4.5 lbs (2.0 kg)
SMK LP CA mount.....	1.2 lbs (0.5 kg)
Regulatory compliance.....	CE, FCC Class B, ICES, RoHS, WEEE Designed to Meet UL1480A and CSA C22.2 No. 205 Designed to Meet IEC/EN 62368-1
Warranty .....	5 years parts and labor

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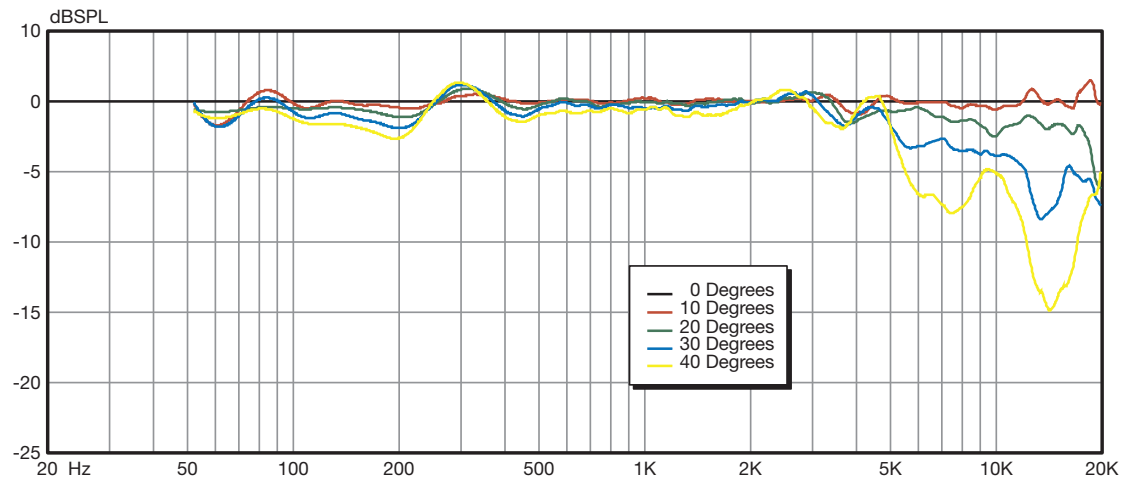
# Specifications • CA 163 Column Array Loudspeaker (Continued)

## CA 163 RESPONSE GRAPHS – FREQUENCY AND IMPEDANCE

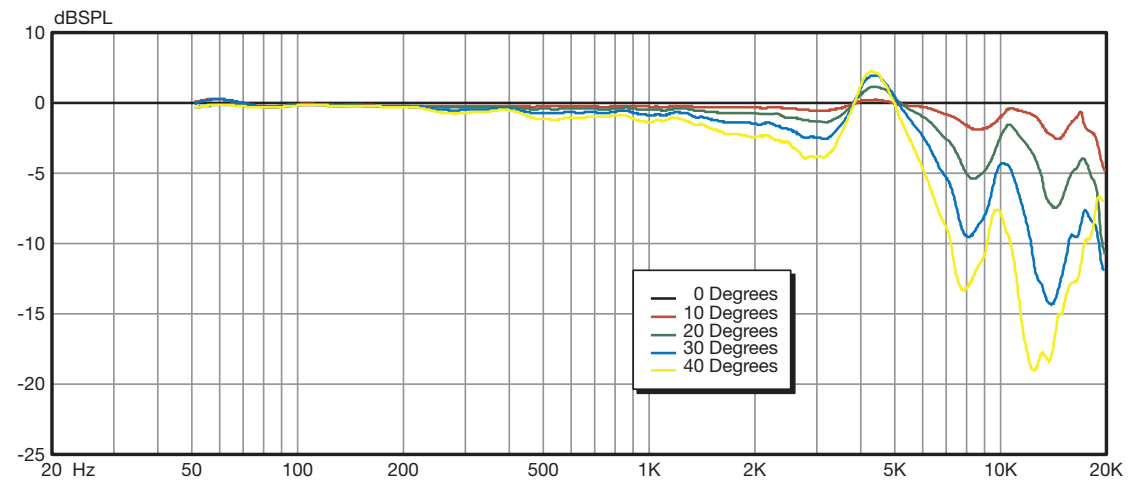
SPL vs. FREQUENCY – 1 WATT @ 1 METER RESPONSE, FULL SPACE (4 $\pi$ )



HORIZONTAL OFF-AXIS FREQUENCY RESPONSE, 1/3 OCTAVE, NORMALIZED ON-AXIS



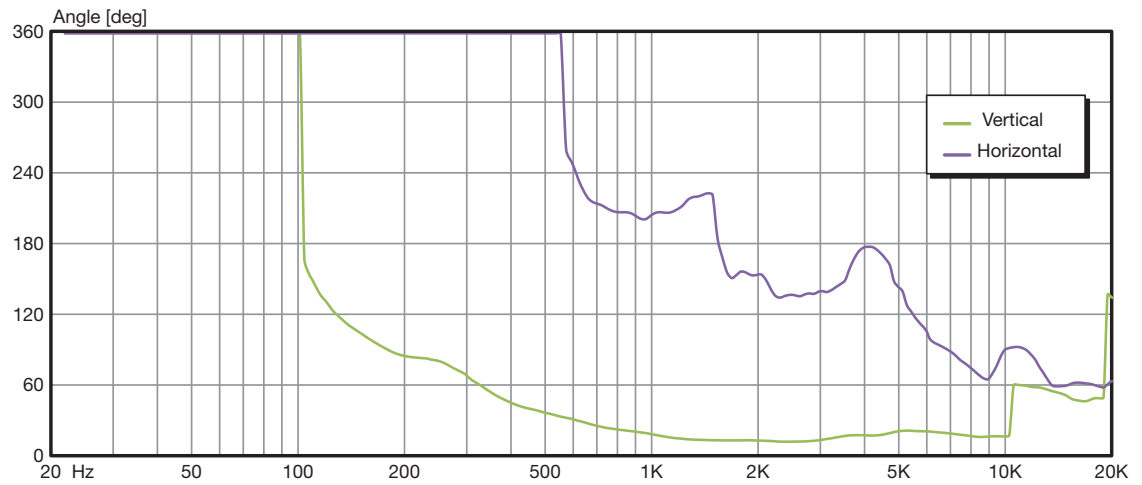
VERTICAL OFF-AXIS FREQUENCY RESPONSE, 1/3 OCTAVE, NORMALIZED ON-AXIS



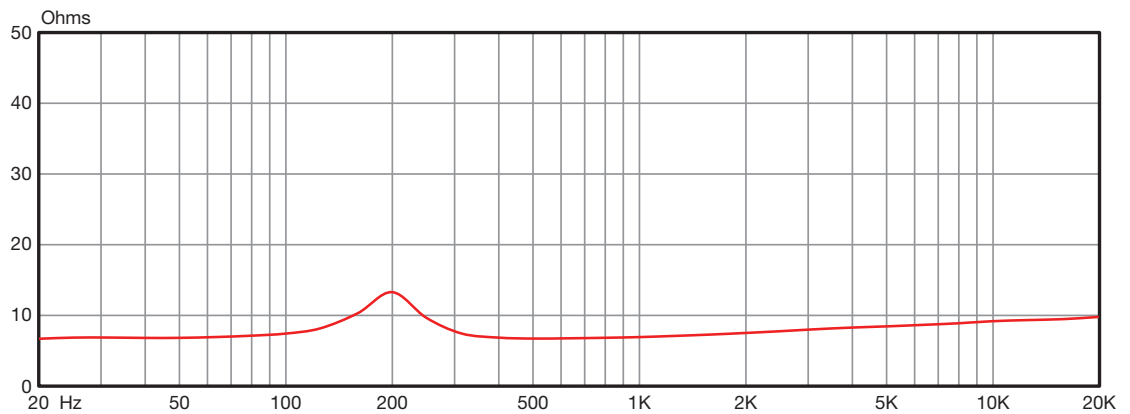
# Specifications • CA 163 Column Array Loudspeaker (Continued)

## CA 163 RESPONSE GRAPHS – FREQUENCY AND IMPEDANCE

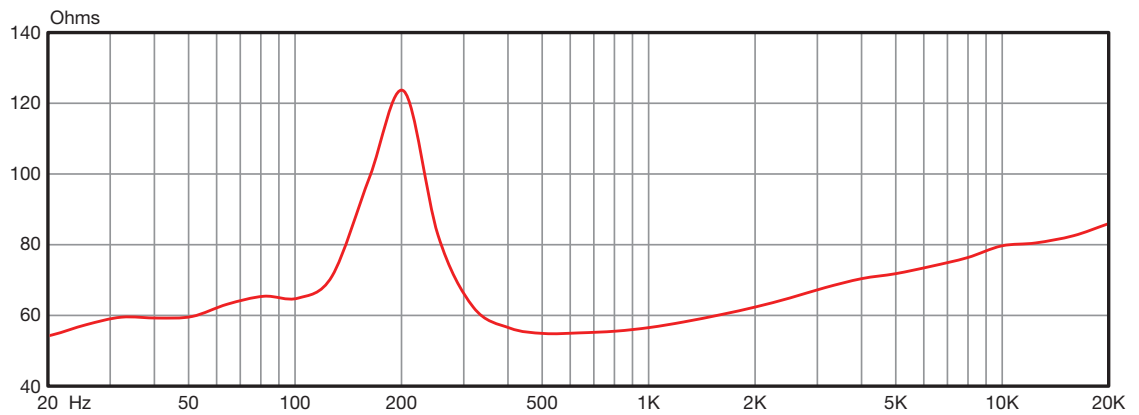
BEAM WIDTH vs. FREQUENCY – COMBINED HORIZONTAL and VERTICAL, -6 dB, 1/3 OCTAVE, 4 m



IMPEDANCE vs. FREQUENCY (LOW IMPEDENCE VERSION)

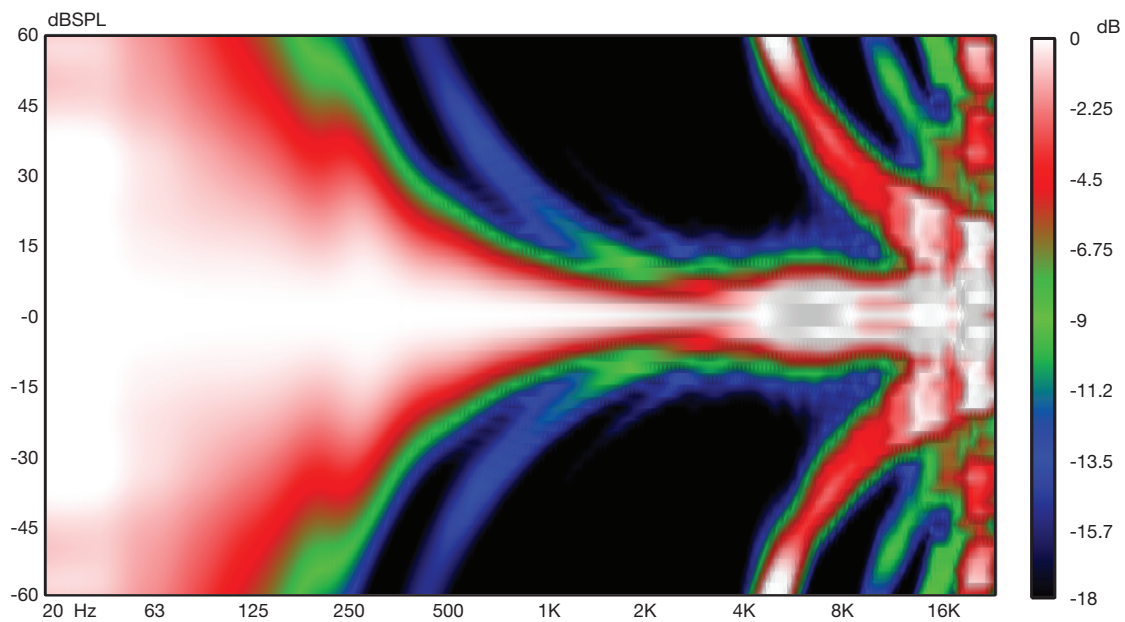


IMPEDANCE vs. FREQUENCY (HIGH IMPEDENCE VERSION)



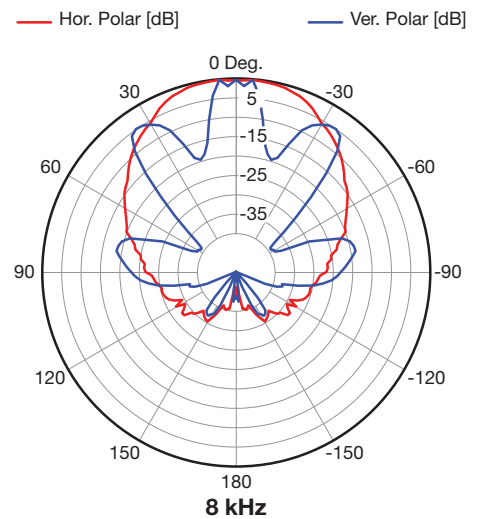
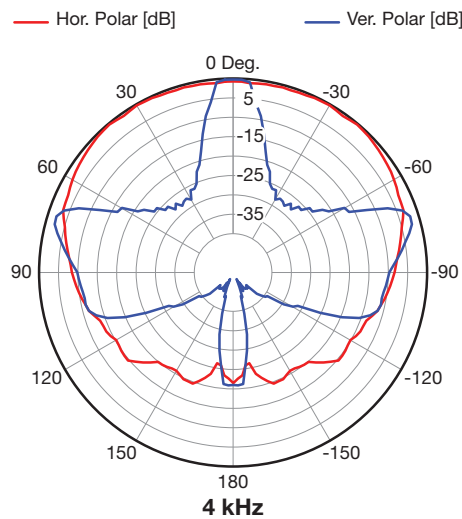
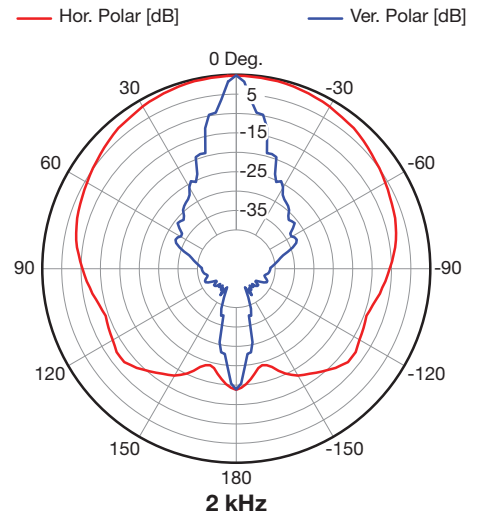
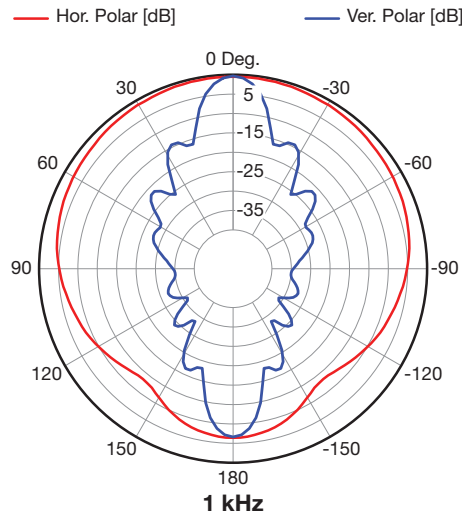
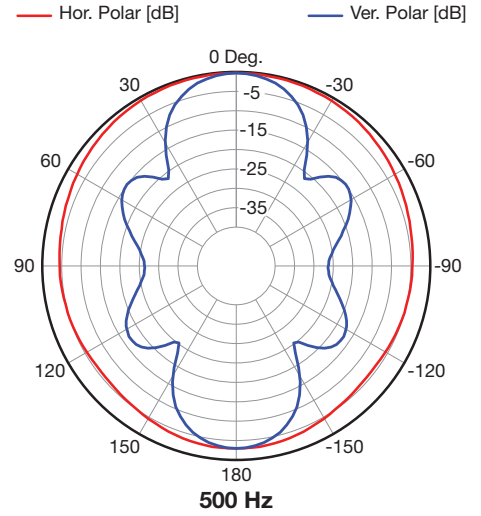
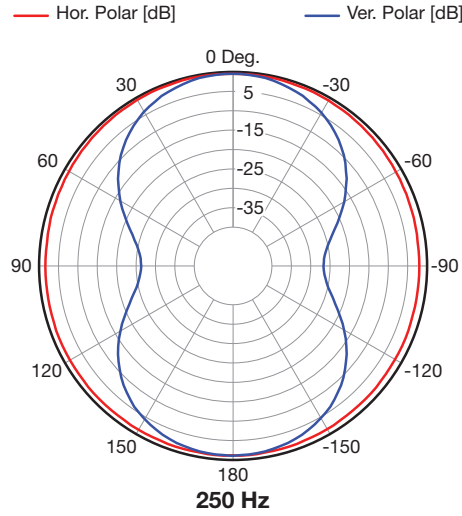
## CA 163 RESPONSE GRAPHS – FREQUENCY AND IMPEDANCE

VERTICAL MAP, 1/3 OCTAVE, 4 m



# Specifications • CA 163 Column Array Loudspeaker (Continued)

## CA 163 POLAR GRAPHS – 1/3 OCTAVE, HORIZONTAL and VERTICAL



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