Ci100.2QR

Architectural Speaker

Product Overview

The KEF Ci100.2QR is a premium high performance speaker designed for in-ceiling and flush mount installations. It's a coincident point source design featuring KEF's proprietary "sit-anywhere" Uni-Q® technology with a driver array that includes a 15mm high frequency aluminium dome tweeter mounted in the acoustic centre of the 80mm low frequency woofer. The tweeter features KEF's Tangerine Waveguide engineered to enhance high frequency dispersion and when combined with the Uni-Q array, creates a speaker that delivers exceptionally smooth and consistent coverage across a wide listening area. The KEF Ci100.2QR is constructed using weather resistant components and the Ultra-Thin Bezel and grille are treated with a UV protective finish making this speaker ideal for hi-fidelity applications in premium commercial venues such as luxury hotels, conference centres, and restaurants.

Key Features

KEF "sit-anywhere" Uni-Q® Technology – This proprietary driver array places the tweeter in the acoustic centre of the woofer delivering wide dispersion with consistent sound characteristics throughout the space. Because the high and low frequencies originate from the same point, acoustic lobing problems common to other speaker designs are virtually eliminated allowing fewer speakers to deliver smooth coverage across a wide listening area.

Tangerine Waveguide – In addition to protecting the driver, the Tangerine Waveguide further enhances dispersion allowing for 150 degrees of coverage

Weather Resistant – Manufactured using a proprietary plating and powder coating process, the KEF Ci100.2QR is UV protected and designed to withstand the harshest operating environments.

Ultra-Thin Bezel (UTB) – To maintain a premium aesthetic appearance, the ABS bezel was carefully engineered to be as thin as possible while maintaining the necessary structural rigidity.

Magnetic Grille – For security and ease of installation the grille attaches by a powerful magnetic circuit and can be painted to match any décor.

IP64 Certification – The speaker passed official IEC testing to ensure that splashing water would have no harmful effects on assembly components.

Architect and Engineer Specifications

The speaker shall be designed for in-ceiling flush mount installations and utilise a coincident point source design with the high frequency tweeter mounted in the acoustic centre of the low frequency woofer.

The speaker shall consist of a 80mm low frequency woofer and a vented 15mm aluminium dome high frequency tweeter featuring a waveguide for improved dispersion mounted in a UV protected ABS baffle with a paintable bezel of no more than 5mm in width. The grille shall also be paintable, include a paint shield, and attach by a powerful magnetic circuit for ease of installation and security. The speaker design shall be open back and deliver a minimum
frequency response of 130Hz - 27kHz +/- 6 db. The speaker shall not weigh more than 0.7kg and be available with a rough in frame kit.

The nominal impedance of the speaker shall be 4 ohms and it must achieve a minimum pressure sensitivity of 83 dB SPL at 1 meter on-axis with an input of 2.83 volts. The crossover frequency between the woofer and tweeter shall be 3kHz. The speaker shall meet numerous safety and performance standards listed by regulatory bodies around the world.

The speaker shall be the KEF Ci100.2QR.

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Specifications

Model		Ci100.2QR
Series		Q Series / Soundlight
Nominal impedance		4Ω
Sensitivity (2.83V/1m)		83dB
Frequency response (±6dB) open-backed		130Hz - 27kHz
Nominal coverage		150°
Max SPL		99dB
Crossover frequency		3.5kHz
Drive units	LF	80mm (3.15in.) Uni-Q
	MF	-
	HF	15mm (0.6in.)
Recommended amplifier power		10-50W
Recommended high-pass filter		80Hz
Product external dimensions	Diameter Ø	135.6mm (5.34in.)
	Depth	107.5mm (4.23in.)
Cut-out dimensions Diameter Ø		114.0mm (4.49in.)
Mounting depth from surface		103.1mm (4.06in.)
Net Weight		0.50kg (1.10lbs)
Optional rough in frame		RIF100R
Optional rear enclosure		RNC100R
Ideal rear volume		5L
Minimum rear volume		0.75L

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The Ci speakers that utilise THX in the model name have undergone and passed certified THX approval.

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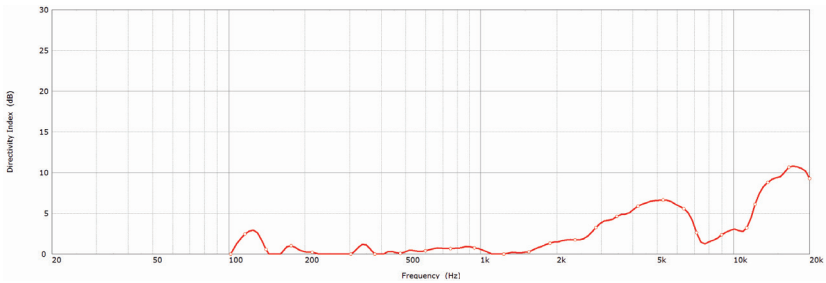
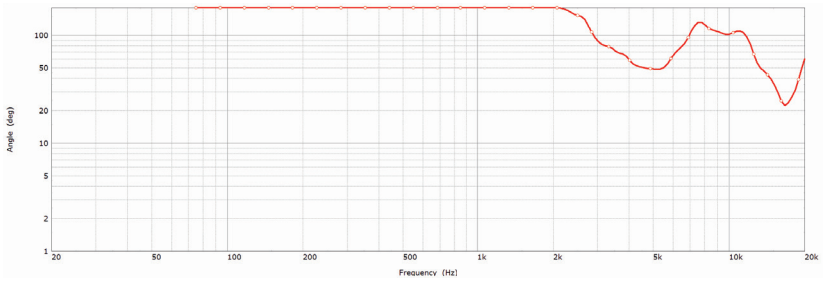
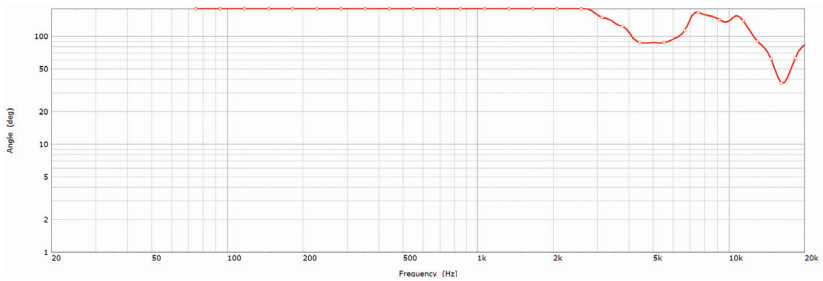
Directivity Index



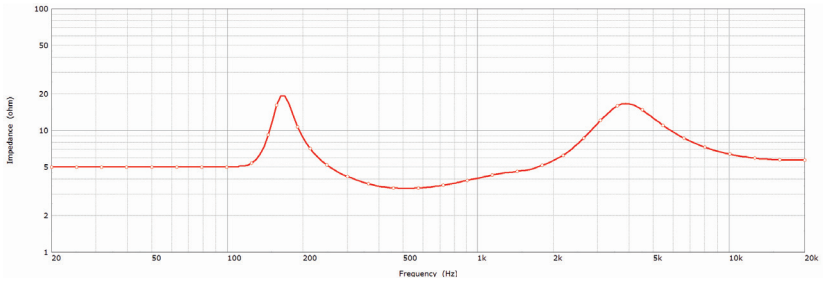
Beamwidth -3dB



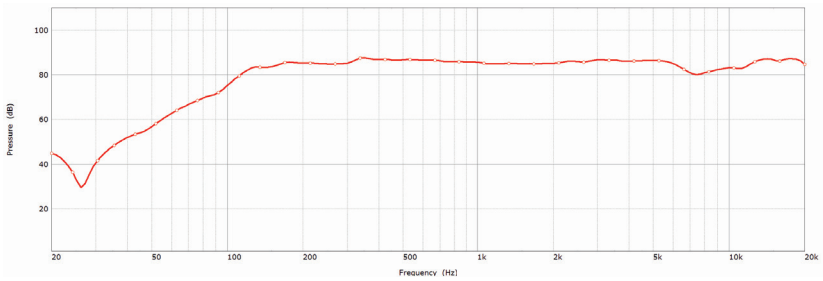
Beamwidth -6dB



Impedance



Sensitivity (2.83V/1m)



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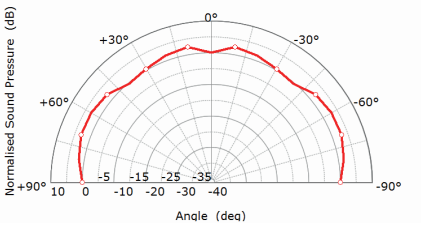
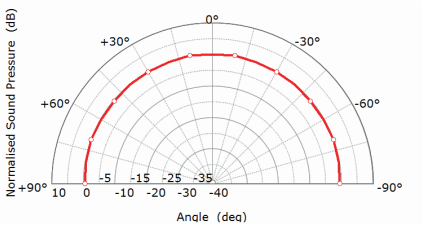
Polar Responses

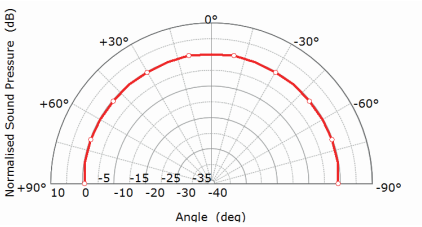
Polar 63Hz



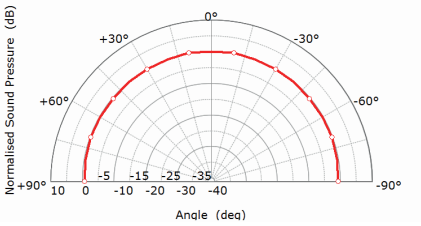
Polar 125Hz



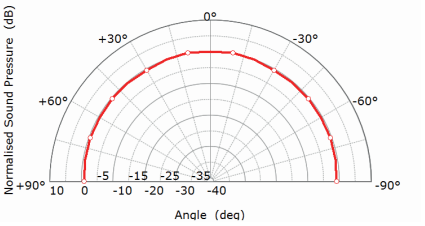
Polar 250Hz



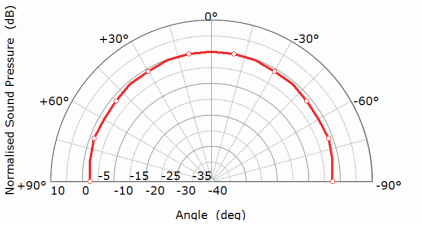
Polar 500Hz



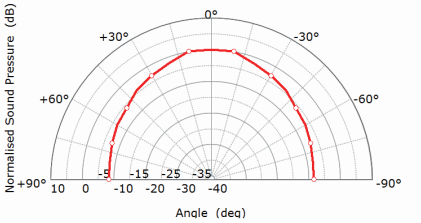
Polar 1kHz



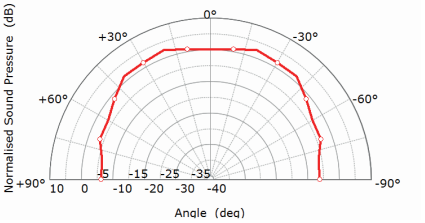
Polar 2kHz



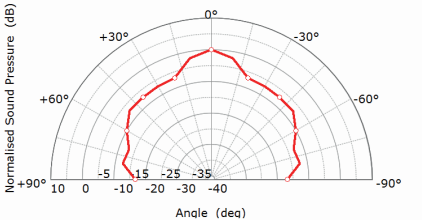
Polar 4kHz



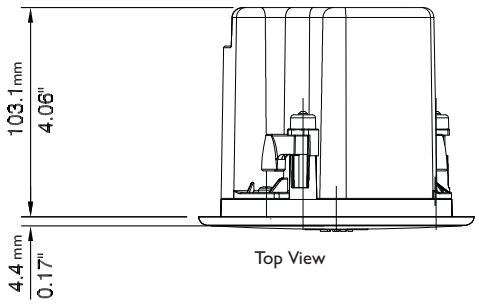
Polar 8kHz



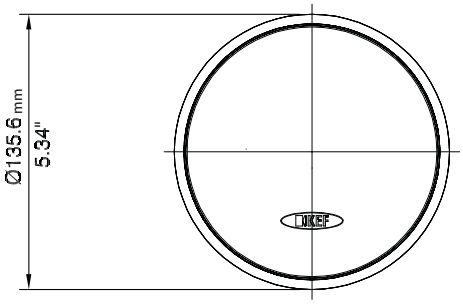
Polar 16kHz



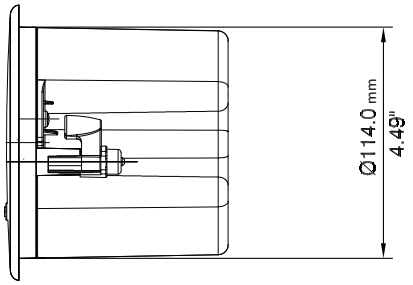
Mechanical Diagrams



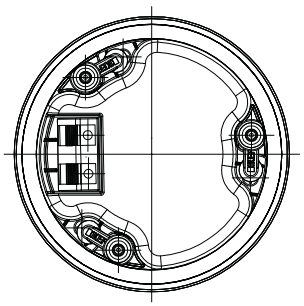
Top View



Front View



Side View



Rear View

Dimensions in mm (inches)

KEF reserves the right, in line with continuing research and development, to amend or change specifications. E&OE.