ARCHITECTURAL SPEAKERS



LISTEN AND BELIEVE

KEF's mission is to deliver sound with as little intervention as possible; from treble to bass, and everything in between. Listeners should be able to close their eyes and immerse themselves in the sound so deeply that they are transported, in their minds, to the source. We believe that the best sound is natural sound – and that access to it is a right, not a privilege.

Experience is everything, and that's no overstatement. Combining our obsessions with acoustic authenticity and innovative engineering, we'd like to think that KEF products speak for themselves.

We invite you to close your eyes and be transported.



HIDE YOUR SPEAKERS, NOT YOUR SOUND

An integrated home audio system should deliver flawlessly accurate three-dimensional sound. Whether you listen to music or movies, everything should be startlingly clear and breathtakingly realistic. The combination of innovative engineering and sophisticated acoustic design ensures KEF's architectural speakers offer as compelling a performance as its revered stand-alone Hi-Fi speakers.

KEF's obsessive urge to continuously innovate is clearly reflected in a range that includes some of the most advanced architectural speakers and solutions available today. From tiny in-ceiling speakers to the stunning Reference in-wall models, there is a product for every requirement. Each offers the purest sound while impeccable cosmetics ensures the speakers disappear into their surroundings and unique design features allow them to be fitted with the minimum of fuss.









UNI-Q®

Uni-Q technology is the building block of KEF signature sound. Uni-Q technology places the tweeter precisely at the acoustic centre of the bass/ midrange cone, so both act together as a single point source to disperse sound more evenly throughout the room. The result is the elimination of the limited 'sweet spot', therefore allowing everybody sitting at different spots in the room to experience and enjoy the same natural, detailed sound.



METAMATERIAL ABSORPTION TECHNOLOGY (MAT™)

A truly revolutionary tool in the KEF acoustic armoury, MAT[™] is a highly complex maze-like structure that absorbs 99% of unwanted sound from the rear of the driver, eliminating the resulting distortion and providing purer, more natural sound.



PATENT-PENDING CAVITY RADIATION CONTROL

Cavity Radiation Control is a unique open-backed midrange with acoustically absorptive foam design that eliminates midrange distortion, up to 30dB midrange dip, found in typical coaxially arranged three-way designs. Cavity Radiation Control enables KEF coaxial three-way architectural speakers to deliver the highest midrange acoustic realism.

Extreme Home Theatre



KEF's Extreme Home Theatre system sets the standard for architectural loudspeakers. Certified to THX Ultra and THX Select, the formidable KEF Ci-REFERENCE and Ci-R Series offer the same breath-taking clarity as our award-winning Hi-Fi speakers, delivering all the drama and emotional intensity of true theatre sound quality.

Extremely Low Profile



KEF's incredible Ci-T Series is designed for delivering the highest quality sound when mounting depth is at an absolute premium. Even with a mounting depth of only 36mm, the Ci-T Series speakers still deliver exceptional KEF sound quality.

Ultra-thin Bezel



KEF's architectural range offers the slimmest visible rim around the speaker while casting virtually no shadow. Coupled with a magnetic grille and designed to fit tight into the wall or ceiling, KEF speakers disappear as if part of the ceiling.

Weatherproof



On the patio, by the pool, or on a yacht, the KEF Ventura Series outdoor speakers let customers enjoy music without compromise. Engineered to IP65 standards, these rugged, hard-wearing speakers can withstand even the most extreme weather conditions. The KEF T, Q, C and E Series are IP64 Certified, which means as well as being impregnable by dust, they are also splash proof.

Flush Mount



KEF's Flush Mount range blends premium sound with premium aesthetics. Sitting completely level with the wall or ceiling with no bezel makes these loudspeakers both easy to install and satisfyingly frameless when in place. In fact, the only hint that a KEF speaker is present is the natural, room-filling sound.





EXTREME HOME THEATRE

Working closely with the THX Testing Lab in Northern California, KEF's Extreme Home Theatre system sets a new standard for architectural loudspeakers. Certified to THX Ultra and THX Select, the formidable KEF Ci-REFERENCE and Ci-R Series offer you the experience of the very best theatre sound, but in the comfort of your own home. Furthermore, the exceptional Ci-Q Series delivers the perfect balance of high-resolution sound with depth and clarity.















Product			Ci5160REF-THX	Ci3160REF-THX	Ci5160RL-THX	Ci3160RL-THX	Ci250RRM-THX	Ci200RR-THX	Ci200RS-THX	Ci160RR-THX	Ci4100QL-THX
Cut-out dimensions	(H × W)	НX	1052 x 209mm (41.42 x 8.23in.)	660 x 209mm (25.98 x 8.23in.)	1052 x 209mm (41.42 x 8.23in.)	660 x 209mm (25.98 x 8.23in.)	-	-	240 x 240mm (9.45 x 9.45in.)	-	476 x 114mm (18.74 x 4.49in.)
	Diameter Ø		-	-	-	-	300mm (11.81in.)	238mm (9.37in.)	-	196mm (7.71in.)	-
Mounting depth from surface			99mm (3.9in.)	99mm (3.9in.)	99mm (3.9in.)	99mm (3.9in.)	168mm (6.62in.)	126.5mm (4.98in.)	127mm (5in.)	110mm (4.33in.)	76mm (3in.)
Drive units	LF		4 x 160mm (6.5in.)	2 x 160mm (6.5in.)	4 x 160mm (6.5in.)	2 x 160mm (6.5in.)	250mm (10in.)	200mm (8in.) Uni-Q	200mm (8in.) Uni-Q	165mm (6.5in.) Uni-Q	3 x 100mm (4in.)
	MF		125mm (5.25in.) Uni-Q	125mm (5.25in.) Uni-Q	160mm (6.5in.) Uni-Q	160mm (6.5in.) Uni-Q	100mm (4in.) Uni-Q	-	-	-	100mm (4in.) Uni-Q
	HF		25mm (1in.)	25mm (1in.)	25mm (1in.)	25mm (1in.)	19mm (0.75in.) vented aluminium dome with MAT ¹	38mm (1.5in.)	38mm (1.5in.)	25mm (1in.)	19mm (0.75in.)
Sensitivity (2.83V/1m)			90dB	90dB	90dB	90dB	89dB	90dB	90dB	90dB	89dB
Recommended amplifier power			40 - 500W	40 - 350W	40 - 250 W	30 - 180W	50 - 250W	10 - 190W	10 - 190W	10 -190W	10 - 150W
Nominal impedance			4Ω	4Ω	4Ω	4Ω	8Ω	4Ω	4Ω	4Ω	4Ω
Rough-in frame			RIF5160L	RIF3160	RIF5160L	RIF3160L	-	RIF200R	RIF200S	RIF160R	RIF4100L
Rear enclosure			-	-	-	-	-	RNC200R	RNC200S	RNC160R	-



IN-CEILING AND IN-WALL SPEAKERS

KEF's comprehensive collection of in-ceiling and in-wall architectural speakers offers exceptional performance from models designed to disappear into their environment. Whether you require the class-defining abilities of the Ci-R Series, or the space saving features of the dual stereo models, KEF has the perfect speaker for your installation.



Product		۵	Ci200QL	Ci160QL	Ci200QS	Ci160QS	Ci130QS	Ci200QR	Ci160QR	Ci130QR
Cut-out dimensions	(H x W)	Series	334 x 238mm (13.15 x 9.37in.)	274 x 194mm (10.79 x 7.64in.)	238 x 238mm (9.37 x 9.37in.)	194 x 194mm (7.64 x 7.64in.)	158 x 158mm (6.22 x 6.2 2in.)	-	-	-
	Diameter Ø		-	-	-	-	-	240mm (9.45in.)	196mm (7.71in.)	158mm (6.22in.)
Mounting depth from surface			99.8mm (3.93in.)	91mm (3.58in.)	99.8mm (3.93in.)	91mm (3.58in.)	77.9mm (3.07in.)	103.3mm (4.07in.)	91mm (3.58in.)	77.8mm (3.06in.)
Drive units	LF		200mm (8in.) Uni-Q	160mm (6.5in.) Uni-Q	200mm (8in.) Uni-Q	160mm (6.5in.) Uni-Q	130mm (5.25in.) Uni-Q	200mm (8.0in.) Uni-Q	160mm (6.5in.) Uni-Q	130mm (5.25in.) Uni-Q
	MF		-	-	-	-	-	-	-	-
	HF		25mm (1in.)	19mm (0.75in.)	25mm (1in.)	25mm (1in.)	25mm (1in.)	25mm (1in.)	19mm (0.75in.)	19mm (0.75in.)
Sensitivity (2.83V/1m)			90dB	89dB	90dB	89dB	87dB	90dB	89dB	87dB
Recommended amplifier power			10 - 150W	10 - 125W	10 - 150W	10 - 125W	10 - 100W	10 - 150W	10 - 125W	10 - 100W
Nominal impedance			8Ω	8Ω	8Ω	8Ω	8Ω	8Ω	8Ω	8Ω
Rough-in frame			RIF200L	RIF160L	RIF200S	RIF160S	RIF130S	RIF200R	RIF160R	RIF130R
Rear enclosure			RNC200L	RNC160L	RNC200S	RNC160S	RNC130S	RNC200R	RNC160R	RNC130R



Product		C	Ci160.2CL	Ci160.2CS	Ci130.2CS	Ci200.2CR	Ci160.2CR	Ci130.2CR	Ш	c
Cut-out dimensions	(H x W)	Series	274 x 194mm (10.79 x 7.64in.)	194 x 194mm (7.64 x 7.64in.)	158 x 158mm (6.22 x 6.22in.)	-	-	-	Series	194 (7.64
	Diameter Ø		-	-	-	240mm (9.45in.)	196mm (7.71in.)	158mm (6.22in.)		
Mounting depth from surface			84.5mm (3.33in.)) 84.5mm (3.33in.)	77.1mm (3.03in.)	97.2mm (3.83in.)	85.2mm (3.35in.)	77.5mm (3.05in.)		85.2r
Drive units	LF		160mm (6.5in.) Uni-Q	160mm (6.5in.) Uni-Q	130mm (5.25in.) Uni-Q	200mm (8in.) Uni-Q	160mm (6.5in.) Uni-Q	130mm (5.25in.) Uni-Q		160
	MF		-	-	-	-	-	-		
	HF		16mm (0.6in.)	16mm (0.6in.)	16mm (0.6in.)	16mm (0.6in.)	16mm (0.6in.)	16mm (0.6in.)		16n
Sensitivity (2.83V/1m)			89dB	89dB	87dB	90dB	89dB	87dB		
Recommended amplifier power			10 - 100W	10 - 100W	10 - 80W	10 - 125W	10 - 100W	10 - 80W		10
Nominal impedance			8Ω	8Ω	8Ω	8Ω	8Ω	8Ω		
Rough-in frame			RIF160L	RIF160S	RIF130S	RIF200R	RIF160R	RIF130R		R
Rear enclosure			RNC160L	RNC160S	RNC130S	RNC200R	RNC160R	RNC130R		R



-

m	Ci160ES	Ci200ER	Ci160ER	Ci130ER
Series	194 x 194mm (7.64 x 7.64in.)	-	-	-
	-	240mm (9.45in.)	196mm (7.71in.)	158mm (6.22in.)
	85.2mm (3.35in.)	97.2mm (3.83in.)	85.2mm (3.35in.)	77.5mm (3.05in.)
	160mm (6.5in.) Uni-Q	200mm (8in.) Uni-Q	160mm (6.5in.) Uni-Q	130mm (5.25in.) Uni-Q
	-	-	-	-
	16mm (0.6in.)	16mm (0.6in.)	16mm (0.6in.)	16mm (0.6in.)
	89dB	90dB	89dB	87dB
	10 - 100W	10 - 125W	10 - 100W	10 - 80W
	8Ω	8Ω	8Ω	8Ω
	RIF160S	RIF200R	RIF160R	RIF130R
	RNC160S	RNC200R	RNC160R	RNC130R

SOUNDLIGHT AND FLUSH MOUNT

Hiding in plain sight, Soundlight speakers mimic LED/halogen lighting fixtures to provide a seamless, unbroken visual. Partnered with a KEF installed passive subwoofers and the KASA500 audio system amplifier, Soundlight speakers fill any space with clear, natural sound.

KEF's Flush Mount models blend premium sound with discreet aesthetics. Sitting completely level with the wall or ceiling with no bezel, the only hint that a speaker is present is the natural, roomfilling sound.









Product		So	Ci100QS	Ci100.2QR		Ci130QSfl	Ci130QRfl
Cut-out dimensions	(H x W)	undlig	112 x 112mm (4.41 x 4.41in.)	-	lush Mo	158 x 158mm (6.22 x 6.22in.)	-
	Diameter Ø	ght		118.0mm (4.65in.)			158mm (6.22in.)
Mounting depth from surface			72mm (2.83in.)	103.1mm (4.06in.)		101mm (3.98in.)	101mm (3.98in.)
Drive units	LF		100mm (4in.) Uni-Q	75mm (3.15in.) Uni-Q		130mm (5.25in.) Uni-Q	130mm (5.25in.) Uni-Q
	MF		-	-		-	-
	HF		19mm (0.75in.)	-		19mm (0.75in.)	19mm (0.75in.)
Sensitivity (2.83V/1m)			88dB	83dB		87dB	87dB
Recommended amplifier power			10 - 50W	10 - 50W		10 - 100W	10 - 100W
Nominal impedance			4Ω	4Ω		8Ω	8Ω
Rough-in frame			RIF100S	RIF100R		NA	NA
Rear enclosure			RNC100S	RNC100R		NA	NA





CI-T AND T SERIES

KEF's extremely low-profile Ci-T and T Series deliver a depth of sound completely at odds to their physical depth.

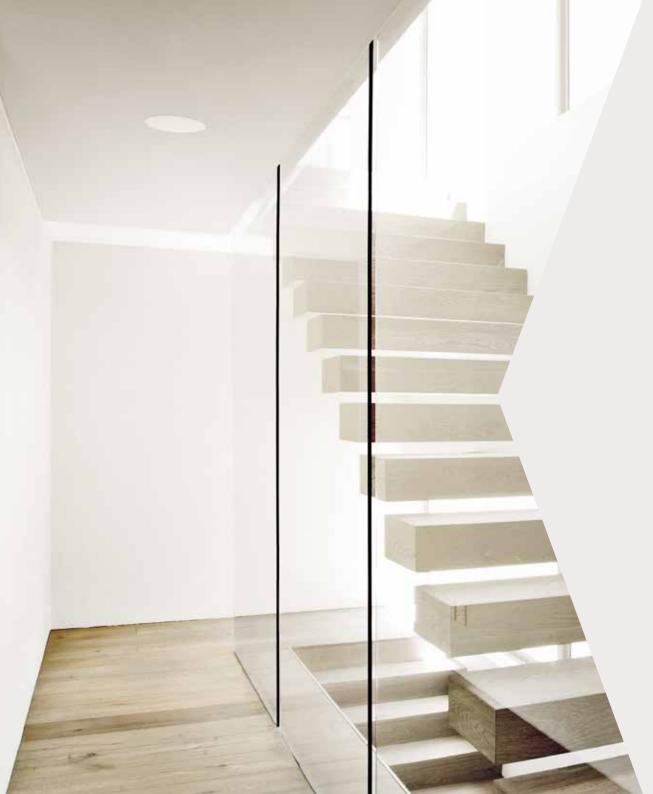
The architectural Ci-T Series' mounting depth of 36mm (59mm for Ci200TRb subwoofer) delivers high-quality sound when space is at a premium, and with the same installation features as the rest of the architectural range.

Utilising the same drivers as the Ci-T series, the T Series is ideal for flanking wall-mounted televisions, or as wall/stand-mounted surround speakers in a home theatre.









SPECIAL APPLICATION

KEF is well ahead of the game when it comes to solving installation problems.

Dual Stereo features a dual voice coil woofer and two tweeters to deliver stereo sound from the space of a single speaker. Alternatively, CiTR-SM is a stereo-to-mono transformer that allows any single KEF speaker to deliver full stereo.

KEF's Motorised Series' integrated system brings the speaker out from its discreet resting place, and after use, draws it back its original position.

The Commercial Series offers both low impedance and 70/100V operation, among other features ideal for distributed audio applications where music and speech requires the absolute best performance.





1	

Product		Ci160CSds	Ci160CRds	Ci110FCT
Cut-out dimensions	(H x W)	In the second	-	ommer
	Diameter Ø	reo -	196mm (7.71in.)	<u>C.</u> 196mm (7.71in.)
Mounting depth from surface	ce	84.5mm (3.33in.)	86mm (3.36in.)	107mm (4.21in.)
Drive units	LF	160mm (6.5in.) Dual voice coil	16 0mm (6.5in.) Dual voice coil	2 110mm (4.3in.)
	MF		-	-
	HF	2 x 19mm (0.75in.)	2 x 19mm (0.75in.)	-
Sensitivity (2.83V/1m)		91dB	91dB	89dB
Recommended amplifier power		10 - 80W	10 - 80W	10 - 100W
Nominal impedance		8Ω	28	8Ω
Rough-in frame		RIF160S	RIF160R	RIF160R
Rear enclosure		RNC160S	RNC160R	-



INSTALLED SUBWOOFERS

All three of KEF's installed subwoofers offer incredible sonic performance whilst remaining visually discreet, and they are all engineered to partner any of KEF's architectural speaker ranges. Plus, when powered by KEF's DSP-driven KASA500 install audio system amplifier, the Ci3160RLb-THX, Ci250RRb-THX and Ci200QSb-THX subwoofers achieve the intense bass performance levels required for THX Select and THX Ultra certification (dependant on configuration).















Product		Subwoof	Ci3160RLb-THX	Ci250RRb-THX Active Mode (KASA 500)	Ci200Qsb-THX Passive Mode (Crossover "ON")	Ci200Qsb-THX Active Mode (KASA500)	Ci200TRb Passive Mode	Ci200TRb Active Mode (KASA500)
Cut-out dimensions	(H × W)	fer	660 x 209mm (25.98 x 8.23in.)	-	238 x 238mm (9.37 x 9.37in.)	238 x 238mm (9.37 x 9.37in.)	-	-
	Diameter Ø		-	300mm (11.81in.)	-	-	240mm (9.45in.)	240mm (9.45in.)
Mounting depth from surface			88.5mm (3.84in.)	147mm (5.8in.)	101.6mm (4in.)	101.6mm (4in.)	59mm (2.32in.)	59mm (2.32in.)
Drive units	LF		3 x 160mm (6.5in.)	250 mm (10in.)	200mm (8in.)	200mm (8in.)	200mm (8in.)	200mm (8in.)
Sensitivity (2.83V/1m)			92dB	-	85dB	-	87dB	87dB
Required amplifier			KEF KASA500	KEF KASA 500	-	KEF KASA500	-	KEF KASA500
Units required for THX Ultra:	Subwoofer KASA500		4 2	4 1	-	8 2	-	-
Units required for THX Select:	Subwoofer KASA500		2 1	2 1	-	4 1	-	-
Recommended amplifier power			-	-	10 - 150W	-	10 - 125W	-
Nominal impedance			4Ω	-	6Ω	-	Stero mode: 2 x 8Ω mono mode: 16Ω	Stero mode: 2 x 8Ω mono mode: 16Ω
Rough-in frame			RIF3160L	-	RIF200S	RIF200S	RIF200R	RIF200R
Rear enclosure			-	-	RNC200S	RNC200S	RNC200R	RNC200R

OUTDOOR SERIES

Weather-resistant, IP65 certified and salt spray tested, KEF's Ventura series of outdoor speakers are ideal for humid environments, and can flood your pool or garden with high-quality sound, even in extreme atmospheric conditions.

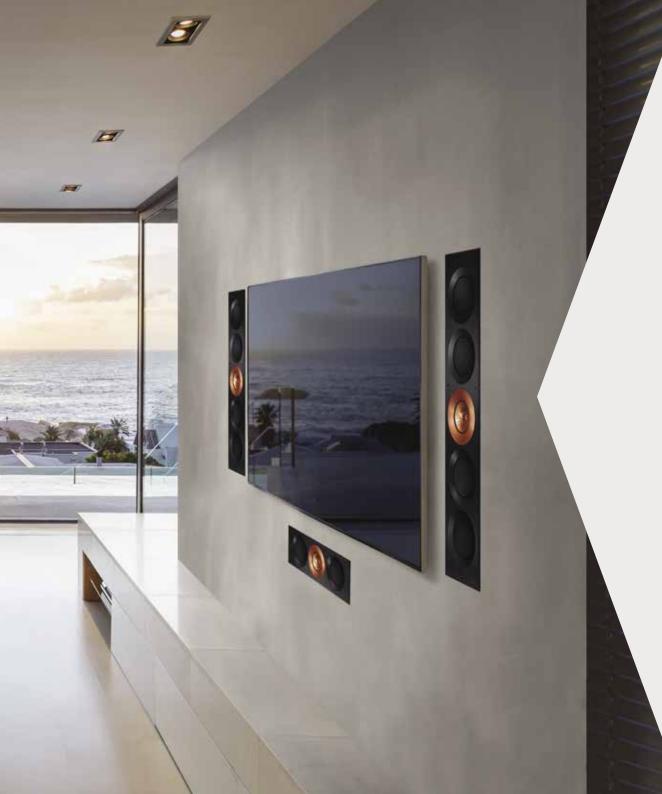
With an all-metal combination of brass, aluminium and stainless steel, the Ventura Series offers exceptional performance throughout the seasons. And delivers the same high-quality sound that KEF has a reputation for, with exceptional clarity and space-filling bass.





Product		Ven	Ventura 6	Ventura 5
Drive units	LF	Ventura	160mm (6.5in.)	130mm (5.25in.)
	MF		-	-
	HF		25mm (1in.)	25mm (1in.)
Sensitivity (2.83V/1m)			90dB	89dB
Recommended amplifier power			10 - 125W	10 - 100W
Nominal impedance			6Ω	6Ω
Operating temperature range			-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
Certification			IP65	IP65





DEDICATED AMPLIFIERS AND ACCESSORIES

Unlock the full potential of KEF subwoofers with the KASA500, a powerful Class-D Dual 250WPC amplifier. This DSP controlled system amplifier is optimised to deliver thunderous bass from KEF architectural subwoofers. With both line and speaker level inputs, and DSP configurable pass-through with optional high-pass filters, the KASA500 is extremely versatile and can be deployed in limitless system configurations.

KEF's BTS30 Bluetooth Keypad and compact amplifier system can deliver Hi-Fi quality sound to a pair of architectural loudspeakers in the same, or a different room.

KEF's accessories allow Architectural speakers to perform at their best. Rough-In Frames reserve the perfect space for the speakers during a new build, while carefully calculated Steel Rear Enclosures reduce sound leakage into adjacent rooms.





Steel Rough-in Frames

Steel Rear Enclosures



Product	KASA 500	BTS30
Inputs	Selectable stereo RCA line level, or mono LFE RCA level; Stereo speaker level	Bluetooth 4.2 with Qualcomm® aptX™ codec Line-in Coaxial Optical
Outputs	2 x 250W@4 Ohms Bridge 1 x 500W@8 Ohms	Stereo Mode 2 x 15W@8 Ohms Mono Mode 30W@4 Ohms Line-Out
Product dimension (H X W X D)	88 x 432 x 304mm (3½ x 17 x 12in.) With feet : 92 x 432 x 304mm (3½ x 17 x 12in.) With rack ears; 2 EIA rack space: 88 x 483 x 304mm (3½ x 19 x 12in.)	Amplifier Unit: 45 x 143 x 125mm (1.77 x 5.63 x 4.9in.) Keypad Unit: 45 x 45 x 40mm (1.58 x 1.77 x 1.77in.) Metal Frame: 1 x 71 x 71mm (0.04 x 2.80 x 2.80in.)
Weight	4kg (9lbs)	Amplifier Unit: 530g (1.168lbs) Keypad Unit: 40g (0.088lbs) Metal Frame: 28g (0.061lbs)



FREEDOM OF EXPRESSION

A major part of KEF's design process ensuring that every loudspeaker benefits from the Consistent Voicing concept – a thread of sonic DNA that starts with Muon and travels all the way through to Soundlight. This can only be achieved through outstanding engineering capabilities, unwavering dedication to the KEF philosophy of sound and uncompromising scrutiny.

Consistent Voicing ensures that every room and any combination of KEF's Architectural and traditional loudspeakers delivers awe-inspiring natural sound. It gives the freedom to create a bespoke solution as unique as the individual with no compromise.

Extreme Theatre		Tall Rectangle	Tall Rectangle	Tall Rectangle	Tall Rectangle	Round	Square	Round	Round	Tall Rectangle	Special Application		Square	Round	Square	Round
Model		Ci5160REF-THX	Ci3160REF-THX	Ci5160RL-THX	Ci3160RL-THX	Ci250RRM-THX	Ci200RS-THX	Ci200RR-THX	Ci160RR-THX	Ci4100QL-THX						
Series		Ci-REFERENCE	Ci-REFERENCE	Ci-R Series	Ci-R Series	Ci-R Series	Ci-R Series	Ci-R Series	Ci-R Series	Ci-Q Series	Model		Ci160TS	Ci160TR	Ci160CSds	Ci160CRds
Nominal impedance		4Ω	4Ω	4Ω	4Ω	8Ω	4Ω	4Ω	4Ω	4Ω	Series		Ci-T Series	Ci-T Series	Ci-C Series/Dual Stereo	
Sensitivity (2.83V/1m)		90dB	90dB	90dB	90dB	89dB	90dB	90dB	90dB	89dB	Nominal impedance		8Ω	8Ω	8Ω	8Ω
Frequency response (±6dB)						28Hz-20kHz			52Hz-24kHz		Sensitivity (2.83V/1m)		87dB	87dB	91dB	91dB
open-backed		40Hz-28kHz	40Hz-28kHz	40Hz-28kHz	45Hz-28kHz		33Hz-28kHz	33Hz-28kHz		55Hz-28kHz	Frequency response (±6dB) open-backed		110Hz-24kHz	110Hz-24kHz	50Hz-20kHz	50Hz-20kHz
Frequency range (-10dB)		35Hz-45kHz	32Hz-30kHz	35Hz-45kHz	35Hz-45kHz	20Hz-45kHz	28Hz-35kHz	28Hz-45kHz	38Hz-30kHz	40Hz-30kHz	E		(0)1 45111	(011 45111	45 00111	4511 00111
Nominal coverage (degrees)		150°	115°	150°	150°	120°	120°	120°	130°	150°	Frequency range (-10dB)		69Hz-45kHz	69Hz-45kHz	45-30kHz	45Hz-30kHz
Max SPL (dB)		116dB	110dB	111dB	106dB	111dB	106dB	106dB	105dB	104dB	Nominal coverage (degrees)		160°	160°	120°	120°
Crossover frequency		400Hz, 2.8kHz	350Hz, 2.7kHz	300Hz, 2.4kHz	340Hz, 2.5kHz	540Hz, 2.6kHz	2.2kHz	2.2kHz	2.1kHz	2.2kHz	Max SPL (dB)		101dB	101dB	106dB	106dB
	LF	4 x 160mm (6.5in.)	2 x 160mm (6.5in.)	4 x 160mm (6.5in.)	2 x 160mm (6.5in.)	250mm (10in.)	200mm (8in.) Uni-Q	200mm (8in.) Uni-Q	165mm (6.5in.) Uni-Q	3 x 100mm (4in.)	Crossover frequency		1.7Hz	1.7kHz	3.2kHz	3.2kHz
	MF	125mm (5.25in.)	125mm (5.25in.)	160mm (6.5in.)	160mm (6.5in.)	100mm (4in.)	-	-	-	100mm (4in.)		LF	115mm (4.5in. Dual	115mm (4.5in.) dual	Dual voice coil:	Dual voice coil:
Drive units		Uni-Q	Uni-Q	Uni-Q	Uni-Q	Uni-Q 19 mm (0.75in.)				Uni-Q	Drive units	MF	layer)	layer	160mm (6.5in.)	160mm (6.5in.)
	HF	25mm (1in.)	25mm (1in.)	25mm (1in.)	25mm (1in.)	vented aluminium	38mm (1.5in.)	38mm (1.5in.)	25mm (1in.)	19mm (0.75in.)		HE	25mm (1in.)	25mm (1in.)	2 x 19mm (0.75in.)	2 x 19mm (0.75in.)
D		40.50014/	40.05014	40.05014	00.40014	dome with MAT ¹	40.40014	40.40014/	10 10014	40.45004/	Recommended amplifier power		10-100W	10-100W	10-80W	10-80W
Recommended amplifier power Recommended high-pass filter (Hz)		40-500W 35Hz-80Hz*	40-350W 40Hz	40-250W 40Hz-80Hz*	30-180W 40-80Hz*	50-250W 30-60Hz	10-190W 35Hz-80Hz	10-190W 35Hz-80Hz*	10-190W 38Hz	10-150W 55Hz	Recommended high-pass filter (Hz)		70Hz	70Hz	50Hz	50Hz
Recommended high-pass hiter (Hz)		1070 x 230 x	680 x 230 x	1070 x 230 x		30-60H2	273 x 273 x	3502-0002	30112		Recommended high pass liter (12)		222.8 x 222.8 x 41mm		223 x 223 x 90.5mm	50112
	(H x W x D)	105.7mm	105.7mm	105.7mm	680 x 230 x 105.7mm (26.77 x 9.06 x	-	132.6mm	_		490 x 128 x 81mm (19.29 x 5.04 x		(H x W x D)	(8.77 x 8.77 x 1.61in.)	-	(8.78 x 8.78 x 3.56in.)	-
Product external dimensions	. ,	(42.13 x 9.06 x 4.16in.)	(26.77 x 9.06 x 4.16in.)	(42.13 x 9.06 x 4.16in.)	4.16in.)		(10.75 x 10.75 x 5.22in.)			3.19in.)	Product external dimensions	Diameter Ø	-	234.6mm (9.24in.)	-	234.6mm (9.24in.)
	Diameter Ø	-	-	-	-	346mm (13.62in.)	-	290mm (11.42in.)	234.6mm (9.24in.)	-		Depth	-	40mm (1.57in.)	-	93mm (3.66in.)
	Depth	-	-	-	-	175mm (6.89in.)		132.6mm (5.22in.)	115mm (4.53in)	-		(H x W)	194 x 194mm	-	194 x 194mm	-
C. 1	(H x W)	1052 x 209mm (41.42 x 8.23in.)	660 x 209mm (25.98 x 8.23in.)	1052 x 209mm (41.42 x 8.23in.)	660 x 209mm (25.98 x 8.23in.)	-	240 x 240mm (9.45 x 9.45in.)	-	-	476 x 114mm (18.74 x 4.49in.)	Cut-out dimensions		(7.64 x 7.64in.)		(7.64 x 7.64in.)	
Cut-out dimensions	Diameter Ø	-	-	(41.42 X 8.23III.) -	(23.96 x 6.23111.)	300mm (11.81in.)		238mm (9.37in.)	196mm (7.71in.)			Diameter Ø	-	196mm (7.71in.)	-	196mm (7.71in.)
Net weight	Diameter p	22kg (48.5lbs.)	13.4kg (29.54lbs.)	19kg (41.89lbs.)	11.7kg (25.79lbs.)	6kg (13.2lbs)	3.6kg (7.94lbs.)	3.6kg (7.94lbs.)	2.94kg (6.48lbs.)	3kg (6.61lbs)	Net weight		1.05kg (2.31lbs)	1kg (2.2lbs.)	1.80kg (4.0lbs.)	1.80kg (4.0lbs.)
Mounting depth from surface		99mm (3.9in.)	99mm (3.9in.)	99mm (3.9in.)	99mm (3.9in.)	168 mm (6.62 in.)	127mm (5in.)	126.5mm (4.98in.)	110mm (4.33in.)	76mm (3in.)	Mounting depth from surface		<36mm (1.42in.)	<36mm (1.42in.)	84.5mm (3.33in.)	86mm (3.36in.)
Optional rough in frame		RIF5160L	RIF3160L	RIF5160L	RIF3160L	-	RIF200S	RIF200R	RIF160R	RIF4100L					. ,	
Ideal rear volume (L)		90L	60L	90L	60L	150L	20L	20L	20L	15L	Optional rough in frame		RIF160S	RIF160R	RIF160S	RIF160R
Minimum rear volume (L)		40L	30L	40L	30L	80L	10L	10L	10L	7L	Optional rear enclosure		RNC160S	RNC160R	RNC160S	RNC160R
Certification		THX ULTRA	THX ULTRA	THX ULTRA	THX ULTRA	THX ULTRA, IP64	THX ULTRA, IP64	4 THX ULTRA, IP64	THX ULTRA, IP64	THX SELECT, IP64	Ideal rear volume (L)		3L	3L	35L	35L
¹ Metamaterial Absorption Technolog	y (MAT™) is	a joint development	with Acoustic Metama	aterials Group.							Minimum rear volume (L)		1L	1L	20L	20L
*Recommended high-pass filter for	HX spec: ou	nz									Certification		IP64	IP64	IP64	IP64
Special Application			Commercial Round		Special Applica	ation		Squa	are		Round		Square		Round	
Model			Ci110FCT		Model			Ci100	QS		Ci100.2QR		Ci130QSfl		Ci130QR	A
Series			Classic Series					Sound	ight/		Soundlight/					
Nominal impedance			8Ω		Series			Ci-Q S			Ci-Q Series		FL Series		FL Series	5
Sensitivity (2.83V/1m)			89dB		Nominal impedance	e		40	2		4Ω					
Frequency response (±6dB)													8Ω		8Ω	
			-		Sensitivity (2.83V/	1m)		880	IB		83dB		87dB		8Ω 87dB	
open-backed			-		Frequency respons								87dB		87dB	17
			- 110Hz-18kHz					88c			83dB 90Hz-27kHz					łz
open-backed Frequency response (±6dB)			- 110Hz-18kHz 105Hz-30kHz		Frequency respons open-backed Frequency respons	e (±6dB) e (±6dB)							87dB		87dB	łz
open-backed Frequency response (±6dB) with back can / rear enclosure					Frequency respons open-backed Frequency respons with back can / rea	e (±6dB) e (±6dB) r enclosure		80Hz-2	7kHz		90Hz-27kHz 130Hz-27kHz		87dB 45Hz-34kHz -		87dB 45Hz-34kH -	
open-backed Frequency response (±6dB) with back can / rear enclosure Frequency range (-10dB)			105Hz-30kHz		Frequency respons open-backed Frequency respons with back can / rea Frequency range (-	e (±6dB) e (±6dB) r enclosure 10dB)		80Hz-2 - 53Hz-2	7kHz !5kHz		90Hz-27kHz 130Hz-27kHz 70Hz-40khz		87dB 45Hz-34kHz - 38Hz-30kHz		87dB 45Hz-34kH - 38Hz-30kH	
open-backed Frequency response (±6dB) with back can / rear enclosure Frequency range (-10dB) Nominal coverage (degrees)			105Hz-30kHz 170°		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (e (±6dB) e (±6dB) r enclosure 10dB)		80Hz-2 - 53Hz-2 150	7kHz !5kHz Jº		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150°		87dB 45Hz-34kHz - 38Hz-30kHz 130°		87dB 45Hz-34kH - 38Hz-30kH 130°	
open-backed Frequency response (±6dB) with back can / rear enclosure Frequency range (-10dB) Nominal coverage (degrees) Max SPL (dB)	LF		105Hz-30kHz 170° 98dB		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB)	e (±6dB) e (±6dB) r enclosure 10dB) degrees)		80Hz-2 - 53Hz-2 150 103	17kHz 15kHz 19° dB		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB		87dB 45Hz-34kHz - 38Hz-30kHz 130° 103dB		87dB 45Hz-34kH - 38Hz-30kH 130° 103dB	Hz
open-backed Frequency response (±6dB) with back can / rear enclosure Frequency range (-10dB) Nominal coverage (degrees) Max SPL (dB)	LF		105Hz-30kHz 170° 98dB -		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (e (±6dB) e (±6dB) r enclosure 10dB) degrees)		80Hz-2 - 53Hz-2 150 103 3kH	7kHz SkHz yo dB tz		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz		87dB 45Hz-34kHz - 38Hz-30kHz 130° 103dB 3.8kHz		87dB 45Hz-34kH - - 38Hz-30kf 130° 103dB 3.8kHz	Hz
open-backed Frequency response (±6dB) with back can / rear enclosure Frequency range (-10dB) Nominal coverage (degrees) Max SPL (dB) Crossover frequency			105Hz-30kHz 170° 98dB - 110mm (4.3in.)		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequence	e (±6dB) e (±6dB) r enclosure 10dB) degrees)	LF	80Hz-2 - 53Hz-2 155 103 3kH 100mm (4i	7kHz SkHz y° dB łz n.) Uni-Q		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB	1	87dB 45Hz-34kHz - 38Hz-30kHz 130° 103dB		87dB 45Hz-34kH - - 38Hz-30kf 130° 103dB 3.8kHz 130mm (5.25in.	Hz
open-backed Frequency response (±6dB) with back can / rear enclosure Frequency range (-10dB) Nominal coverage (degrees) Max SPL (dB) Crossover frequency	MF		105Hz-30kHz 170° 98dB - 110mm (4.3in.) -		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB)	e (±6dB) e (±6dB) r enclosure 10dB) degrees)	MF	80Hz-2 - 53Hz-2 155 103 3kH 100mm (4i	7kHz 5kHz yº dB łz n.) Uni-Q		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.15in.) Uni-Q	1	87dB 45Hz-34kHz - 38Hz-30kHz 103dB 3.8kHz 30mm (5.25in.) Uni-Q		87dB 45Hz-34kH - - 38Hz-30kl 130° 103dB 3.8kHz 130mm (5.25in.	Hz) Uni-Q
open-backed Frequency response (±6dB) with back can / rear enclosure Frequency range (-10dB) Nominal coverage (degrees) Max SPL (dB) Crossover frequency Drive units	MF		105Hz-30kHz 170° 98dB - 110mm (4.3in.) -		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequence Drive units	e (±6dB) e (±6dB) r enclosure l0dB) degrees) 		80Hz-2 - 53Hz-2 150 103 3kH 100mm (4 - 19mm (0	7kHz 5kHz 9° 4B 42 n.) Uni-Q 2.75in.)		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.15h) Uni-Q - 16mm (0.6in.)	1	87dB 45Hz-34kHz 38Hz-30kHz 130° 103dB 3.8kHz 30mm (5.25in,) Uni-Q - 19mm (0.75in,)		87dB 45Hz-34kH - - - - - - - - - - - - - - - - - - -	Hz) Uni-Q
open-backed Frequency response (±6dB) with back can / rear enclosure Frequency range (-10dB) Nominal coverage (degrees) Max SPL (dB) Crossover frequency Drive units Recommended amplifier power	MF		105Hz-30kHz 170° 98dB - 110mm (4.3in.) - - 10-100W		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequence Drive units Recommended amp	e (±6dB) e (±6dB) r enclosure 10dB) degrees) ;y	MF	80Hz-2 - 53Hz-2 150 103 8H 100mm (4 - 19mm (0 19mm (0 10-50	7kHz 5kHz pe 4B 4z n.) Uni-Q 2.75in.) 2.75in.)		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.5in.) Uni-Q - 16mm (0.6in.) 10-50W	1	87dB 45Hz-34kHz - 38Hz-30kHz 130° 103dB 308Hz 30mm (5.25in,) Uni-Q - 19mm (0.75in,) 10-100W		87dB 45Hz-34kH - - - - - - - - - - - - - - - - - - -	Hz) Uni-Q
open-backed Frequency response (±6dB) with back can / rear enclosure Frequency range (-10dB) Nominal coverage (degrees) Max SPL (dB) Crossover frequency Drive units Recommended amplifier power Recommended high-pass filter (Hz) Recommended low-pass filter (Hz)	MF HF		105Hz-30kHz 170° 98dB - 110mm (4.3in.) - - 10-100W 110Hz -		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequence Drive units	e (±6dB) e (±6dB) r enclosure 10dB) degrees) ;y	MF	80Hz-2 53Hz-2 150 103 30 4 100mm (4 100mm (4 107mm (0 19mm (0 10-55 60+	7kHz 5kHz 4B 4z n, Uni-Q 0,75in,) 0W 4z		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.15h) Uni-Q - 16mm (0.6in.)		87dB 45Hz-34kHz - 38Hz-30kHz 130° 103dB 3.0kHz 3.0mm (5.25in,) Uni-Q - 19mm (0.75in,) 10-100W 50Hz		87dB 45Hz-34kH - - - - - - - - - - - - - - - - - - -	Hz) Uni-Q
open-backed Frequency response (±6dB) With back can / rear enclosure Irequency range (-10dB) Nominal coverage (degrees) Max SPL (dB) Crossover frequency Drive units Recommended amplifier power Recommended high-pass filter (Hz) Recommended low-pass filter (Hz)	MF		105Hz-30kHz 170° 98dB - 110mm (4.3in.) - - 10-100W 110Hz		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequence Drive units Recommended amp	e (±6dB) e (±6dB) r enclosure 10dB) degrees) ;y ;y plifier power pass filter (H2)	MF	80Hz-2 - 53Hz-2 15(103) 3kH 100mm (4 - 19mm (0 10-5) 604 127 x 127	7kHz 5kHz ye dB 4z 1,75in,) 00W 4z x 76mm		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.5in.) Uni-Q - 16mm (0.6in.) 10-50W	20	87dB 45Hz-34kHz - 38Hz-30kHz 130° 103dB 3.8kHz 30mm (5.25in.) Uni-Q - 19mm (0.75in.) 10-100W 50Hz 0.5 x 103.6mm		87dB 45Hz-34kH - - - - - - - - - - - - - - - - - - -	Hz) Uni-Q
open-backed Frequency response (±6dB) with back can / rear enclosure Frequency range (-10dB) Nominal coverage (degrees) Max SPL (dB) Crossover frequency Drive units Recommended amplifier power Recommended high-pass filter (Hz) Recommended low-pass filter (Hz) Product external dimensions	MF HF		105Hz-30kHz 170° 98dB - 110mm (4.3in.) - - 10-100W 110Hz -		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequence Drive units Recommended amp	e (±6dB) e (±6dB) r enclosure 10dB) degrees) 	MF HF (H x W x D)	80Hz-2 - - - - - - - - - - - - - - - - - -	7kHz 5kHz yo dB tz tz x75in.) WW tz x75im.) WW tz x76mm tz x76mm tz x76mm		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.5h, Uni-Q - 16mm (0.6in.) 10-50W 80Hz -	20	87dB 45Hz-34kHz 38Hz-30kHz 130° 103dB 3.8kHz 30mm (5.25in.) Uni-Q - - 19mm (0.75in.) 10-100W 50Hz 0.5 x 200.5 x 103.6mm (7.9 x 7.9 x 4.08in.)		87dB 45Hz-34kH - - - - - - - - - - - - - - - - - - -	Hz) Uni-Q sin.) V
open-backed Frequency response (±6dB) with back can / rear enclosure Frequency range (-10dB) Nominal coverage (degrees) Max SPL (dB) Crossover frequency Drive units Recommended amplifier power Recommended high-pass filter (Hz) Recommended low-pass filter (Hz) Product external dimensions	MF HF (H x W x D) Diameter Ø		105Hz-30kHz 170° 98dB - 110mm (4.3in.) - - 10-100W 110Hz - - 220mm (8.66in.)		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequence Drive units Recommended amp Recommended high	e (±6dB) e (±6dB) r enclosure 10dB) degrees) 	MF HF	80Hz-2 - 53Hz-2 150 103 3kt 100mm (i 100mm (i 10-5 60H 127 x 127 (5.0 x 50)	7kHz 5kHz 48 42 1,75in,) 1,0ii-Q 2,75in,) 2,75in,) 20W 42 x 76mm x 76mm 2,299in,)		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.5in.) Uni-Q 1.6mm (0.6in.) 10-50W 80Hz 13.5.6mm (5.34in.)	20	87dB 45Hz-34kHz 38Hz-30kHz 130° 103dB 3.8kHz 30m (5.25in,) Uni-Q - 19mm (0.75in,) 10-100W 50Hz 0.5 x 200.5 x 103.6mm (7.9 x 7.9 x 4.08in,)		87dB 45Hz-34kH - - - - - - - - - - - - - - - - - - -	Hz) Uni-Q iin.) V
open-backed Frequency response (±6dB) with back can / rear enclosure Frequency range (-10dB) Nominal coverage (degrees) Max SPL (dB) Crossover frequency Drive units Recommended amplifier power Recommended high-pass filter (Hz) Recommended low-pass filter (Hz) Product external dimensions	MF HF (H x W x D) Diameter Ø Depth		105Hz-30kHz 170° 98dB - - 110mm (4.3in.) - - 10-100W 110Hz - - 220mm (8.66in.) 110mm (4.33in.)		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequence Drive units Recommended amp Recommended high	e (±6dB) e (±6dB) r enclosure 10dB) degrees) 	MF HF (H x W x D) Diameter Ø Depth	80Hz-2 - 53Hz-2 150 103 38H - 100mm (i 10-59 60H 127 x 127 (5.0 x 5.0 -	7kHz 5kHz pe 4B 4B 4z n.) Uni-Q 0.75in.) 00W 4z x 76mm 4z x 269pin.)		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.5h, Uni-Q - 16mm (0.6in.) 10-50W 80Hz -	20	87dB 45Hz-34kHz - 38Hz-30kHz 130° 103dB 30kHz 30kHz 30mm (5.25in,) Uni-Q - - 19mm (0.75in,) 10-100W 50Hz 0.5 x 200.5 x 103.6mm (7.9 x 7.9 x 4.08in,) -		87dB 45Hz-34kH - - - - - - - - - - - - - - - - - - -	Hz) Uni-Q iin.) V
open-backed Frequency response (±6dB) with back can / rear enclosure Frequency range (-10dB) Nominal coverage (degrees) Max SPL (dB) Crossover frequency Drive units Recommended amplifier power Recommended high-pass filter (Hz) Recommended low-pass filter (Hz) Product external dimensions	MF HF (H x W x D) Diameter Ø		105Hz-30kHz 170° 98dB - 110mm (4.3in.) - - 10-100W 110Hz - - 220mm (8.66in.)		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequence Drive units Recommended amp Recommended high Product external di	e (±6dB) r enclosure 10dB) degrees) y plifier power n-pass filter (Hz) mensions	MF HF	80Hz-2 - 53Hz-2 150 103 3kt 100mm (i 100mm (i 10-5 60H 127 x 127 (5.0 x 50)	7kHz 5kHz ye dB tz n,) Uni-Q 1,75in,) 0W tz x 76mm t2 299in,) 12mm		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.5in.) Uni-Q 1.6mm (0.6in.) 10-50W 80Hz 13.5.6mm (5.34in.)	20	87dB 45Hz-34kHz 38Hz-30kHz 130° 103dB 3.8kHz 30m (5.25in,) Uni-Q - 19mm (0.75in,) 10-100W 50Hz 0.5 x 200.5 x 103.6mm (7.9 x 7.9 x 4.08in,)		87dB 45Hz-34kH - - - - - - - - - - - - - - - - - - -	Hz) Uni-Q iin.) V
open-backed Frequency response (±6dB) Frequency range (±0dB) Nominal coverage (degrees) Max SPL (dB) Crossover frequency Drive units Recommended amplifier power Recommended high-pass filter (Hz) Recommended low-pass filter (Hz) Recommended low-pass filter (Hz)	MF HF (H x W x D) Diameter Ø Depth		105Hz-30kHz 170° 98dB - - 110mm (4.3in.) - - 10-100W 110Hz - - 220mm (8.66in.) 110mm (4.33in.)		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequence Drive units Recommended amp Recommended high	e (±6dB) e (±6dB) r enclosure 10dB) degrees) y publifier power n-pass filter (Hz) mensions	MF HF (H x W x D) Diameter Ø Depth	80Hz-2 - 53Hz-2 150 103 3kk 100mm (4i 10-5 60H 127 x 127 (5.0 × 5.0) - - - -	7kHz 5kHz ye dB tz tz x75in.) WW tz x75in.) WW tz x75in.) WW tz tz x75in.) WW tz tz tz tz tz tz tz tz tz tz		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.5in.) Uni-Q 1.6mm (0.6in.) 10-50W 80Hz 13.5.6mm (5.34in.)	20	87dB 45Hz-34kHz 38Hz-30kHz 103dB 3.8kHz 30mm (5.25in.) Uni-Q - 19mm (0.75in.) 10-100W 50Hz 0.5 x 200.5 x 103.6mm (7.9 x 7.9 x 4.08in.) - 158 x 158mm		87dB 45Hz-34kH - - - - - - - - - - - - - - - - - - -	Hz) Uni-Q iin.) V 9in) 12in)
open-backed Frequency response (±6dB) Frequency range (-10dB) Nominal coverage (degrees) Max SPL (dB) Crossover frequency Drive units Recommended amplifier power Recommended high-pass filter (H2) Recommended low-pass filter (H2) Product external dimensions Cut-out dimensions	MF HF (H x W x D) Diameter Ø Depth (H x W)		105Hz-30kHz 170° 98dB - 110mm (4.3in.) - - 10-100W 110Hz - 220mm (8.66in.) 110mm (4.33in.) - 196mm (7.71in.)		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequence Drive units Recommended am Recommended high Product external di Cut-out dimension	e (±6dB) e (±6dB) r enclosure 10dB) degrees) y publifier power n-pass filter (Hz) mensions	MF (H × W × D) Diameter Ø (H × W)	80Hz-2 - 53Hz-2 150 1033 3kł 100mm (łi 100mm (łi 100mm (łi 100mm (łi 107 × 127 (5.0 × 5.0) - - - - - 1127 × 127 (5.4 × 5.0) - - - - - - - - - - - - - - - - - - -	7kHz 5kHz yo 4B 4z 1,75in,) 10H-Q 1,75in,) 0W 4z x 76mm x 76mm 2,299in,) 12mm 12mm		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.5in) Uni-Q - 16mm (0.6in.) 10-50W 80Hz - 135.6mm (5.34in.) 107.5mm (4.23in.) 107.5mm (4.23in.)	20	87dB 45Hz-34kHz 38Hz-30kHz 130° 103dB 3.8kHz 30mm (5.25n), Uni-Q - 19mm (0.75in,) 10-100W 50Hz 0.5 x 200.5 x 103.6mm (7.9 x 7.9 x 4.08in,) - - 158 x 158mm (6.22 x 6.22in,)		87dB 45Hz-34kH - - - - - - - - - - - - - - - - - - -	Hz) Uni-Q iin.) V Sin) 12in) 2in.)
open-backed Prequency response (±6dB) with back can / rear enclosure Frequency range (-10dB) Nominal coverage (degrees) Max SPL (dB) Crossover frequency Drive units Recommended amplifier power Recommended high-pass filter (Hz) Recommended low-pass filter (Hz) Product external dimensions Cut-out dimensions Net weight	MF HF (H x W x D) Diameter Ø Depth (H x W)		105Hz-30kHz 170° 98dB - 110mm (4.3in.) - 10-100W 10-100W 10-100W 220mm (8.66in.) 110mm (4.33in.) - 110mm (4.33in.) 225 kg (4.95lbs)		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequence Drive units Recommended amy Recommended high Product external di Cut-out dimension Net weight	e (±6dB) e (±6dB) r enclosure 10dB) degrees) : y plifier powerpass filter (H2) mensions s	MF (H × W × D) Diameter Ø (H × W)	80Hz-2 53Hz-2 150 103 3kH 100mm (4i 107mm (4i 19mm (0 19mm (0	7kHz 5kHz ye 4B 4B 42 1,75in,) 10Hi-Q 2,75in,) 0W 4z x 76mm (2,999in) 12mm 12mm 12mm 14lin,) 		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.5in.) Uni-Q 1. 16mm (0.6in.) 10-50W 80Hz 135.6mm (5.34in.) 107.5mm (4.23in.) 107.5mm (4.23in.) 118.0mm (4.65in.)	20	87dB 45Hz-34kHz 38Hz-30kHz 130° 103dB 3.8kHz 30mt (5.25in,) Uni-Q - - 19mt (0.75in,) 10-100W 50Hz 0.5 x 200.5 x 103.6mt (7.9 x 7.9 x 4.08in,) - - 158 x 158mt (6.22 x 6.22in,) - - 1.6kg (3.53lbs,)		87dB 45Hz-34kH - - - - - - - - - - - - - - - - - - -	Hz) Uni-Q ;iin.) V 9in) 12in) 2in.) 1bs.)
open-backed Frequency response (±6dB) Frequency range (-10dB) Noninal coverage (degrees) Max SPL (dB) Crossover frequency Drive units Recommended amplifher power Recommended high-pass filter (Hz) Recommended low-pass filter (Hz) Product external dimensions Cut-out dimensions	MF HF (H x W x D) Diameter Ø Depth (H x W)		105Hz-30kHz 170° 98dB - 110mm (4.3in.) - - 10-100W 110Hz - 220mm (8.66in.) 110mm (4.33in.) - 196mm (7.71in.) 2.25 kg (4.95lbs) 107mm (4.21in.)		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequenc Drive units Recommended am Recommended high Product external di Cut-out dimension Net weight Mounting depth fre	e (±6dB) r enclosure 10dB) degrees) cy sy shifter power pass filter (Hz) mensions s	MF (H × W × D) Diameter Ø (H × W)	80Hz-2 - - 53Hz-2 150 103 3kt 100mm (ki 100mm (ki 100mm (ki 107 x12 (5.0 × 5.0) - - - - - - - - - - - - - - - - - - -	7kHz 5kHz 5kHz 4B 4z 1,75in,) 0W 4z 2,75in,) 0W 4z 2,75in,) 0W 12 2,75in,) 12 12 12 12 12 12 12 12 12 12		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.5in,) Uni-Q - 16mm (0.6in,) 10-50W 80Hz 135.6mm (5.34in,) 107.5mm (4.23in,) 107.5mm (4.23in,) 108.0mm (4.65in,) 2 108.0mm (4.65in,) 103.1mm (4.06in,)	20	87dB 45Hz-34kHz 38Hz-30kHz 130° 103dB 3.8kHz 30mm (5.25n), Uni-Q - 19mm (0.75in,) 10-100W 50Hz 0.5 x 200.5 x 103.6mm (7.9 x 7.9 x 4.08in,) - - 158 x 158mm (6.22 x 6.22in,)		87dB 45Hz-34kH - - - - - - - - - - - - - - - - - - -	Hz) Uni-Q ;iin.) V 9in) 112in) 2in.) 1bs.)
open-backed Prequency response (±6dB) with back can / rear enclosure Frequency range (-10dB) Nominal coverage (degrees) Max SPL (dB) Crossover frequency Drive units Recommended amplifier power Recommended high-pass filter (Hz) Recommended low-pass filter (Hz) Product external dimensions Cut-out dimensions Net weight	MF HF (H x W x D) Diameter Ø Depth (H x W)		105Hz-30kHz 170° 98dB - 110mm (4.3in.) - 10-100W 10-100W 10-100W 220mm (8.66in.) 110mm (4.33in.) - 110mm (4.33in.) 225 kg (4.95lbs)		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequence Drive units Recommended amy Recommended high Product external di Cut-out dimension Net weight	e (±6dB) r enclosure 10dB) degrees) cy sy shifter power pass filter (Hz) mensions s	MF (H × W × D) Diameter Ø (H × W)	80Hz-2 53Hz-2 150 103 3kH 100mm (4i 107mm (4i 19mm (0 19mm (0	7kHz 5kHz 5kHz 4B 4z 1,75in,) 0W 4z 2,75in,) 0W 4z 2,75in,) 0W 12 2,75in,) 12 12 12 12 12 12 12 12 12 12		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.5in.) Uni-Q 1. 16mm (0.6in.) 10-50W 80Hz 135.6mm (5.34in.) 107.5mm (4.23in.) 107.5mm (4.23in.) 118.0mm (4.65in.)	20	87dB 45Hz-34kHz 38Hz-30kHz 130° 103dB 3.8kHz 30mt (5.25in,) Uni-Q - - 19mt (0.75in,) 10-100W 50Hz 0.5 x 200.5 x 103.6mt (7.9 x 7.9 x 4.08in,) - - 158 x 158mt (6.22 x 6.22in,) - - 1.6kg (3.53lbs,)		87dB 45Hz-34kH - - - - - - - - - - - - - - - - - - -	Hz) Uni-Q ;iin.) V 9in) 12in) 2in.) 1bs.)
open-backed Frequency response (±6dB) Nominal coverage (degrees) Max SPL (dB) Crossover frequency Drive units Recommended amplifier power Recommended ligh-pass filter (H2) Recommended light-pass filter (H2) Rec	MF HF (H x W x D) Diameter Ø Depth (H x W)		105Hz-30kHz 170° 98dB - 110mm (4.3in.) - - 10-100W 110Hz - 220mm (8.66in.) 110mm (4.33in.) - 196mm (7.71in.) 2.25 kg (4.95lbs) 107mm (4.21in.)		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequence Drive units Recommended amy Recommended high Product external di Cut-out dimension Net weight Mounting depth fre Mounting depth fre	e (±6dB) e (±6dB) r enclosure 10dB) degrees) : y bilifier power n-pass filter (Hz) mensions s s s s s s s s s s s s s s	MF (H × W × D) Diameter Ø (H × W)	80Hz-2 - - 53Hz-2 150 103 3kt 100mm (ki 100mm (ki 100mm (ki 107 x12 (5.0 × 5.0) - - - - - - - - - - - - - - - - - - -	7kHz 5kHz ye 4B 4B 4z 1,75in,) 10H-Q 2,75in,) 00W 4z 2,75in,) 00W 4z 2,259in,) 12mm 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 14lin,) 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm 12mm		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.5in,) Uni-Q - 16mm (0.6in,) 10-50W 80Hz 135.6mm (5.34in,) 107.5mm (4.23in,) 107.5mm (4.23in,) 108.0mm (4.65in,) 2 108.0mm (4.65in,) 103.1mm (4.06in,)	20	87dB 45Hz-34kHz 38Hz-30kHz 130° 103dB 3.8kHz 30mt (5.25in,) Uni-Q - - 19mt (0.75in,) 10-100W 50Hz 0.5 x 200.5 x 103.6mt (7.9 x 7.9 x 4.08in,) - - 158 x 158mt (6.22 x 6.22in,) - - 1.6kg (3.53lbs,)		87dB 45Hz-34kH - - - - - - - - - - - - - - - - - - -	Hz) Uni-Q ;iin.) V 9in) 12in) 2in.) 1bs.)
open-backed Frequency response (±6dB) With back can / rear enclosure Frequency range (-10dB) Nominal coverage (degrees) Max SPL (dB) Crossover frequency Drive units Recommended amplifier power Recommended high-pass filter (Hz) Recommended low-pass filter (Hz) Product external dimensions Cut-out dimensions Net weight Mounting depth from surface Mounting depth from surface	MF HF (H x W x D) Diameter Ø Depth (H x W)		105Hz-30kHz 170° 98dB - 110mm (4.3in.) - 10-100W 110Hz - 220mm (8.66in.) 110mm (4.33in.) - 196mm (7.71in.) 2.25 kg (4.95lbs) 107mm (4.21in.)		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequence Drive units Recommended amp Recommended amp Recommended high Product external di Cut-out dimension Net weight Mounting depth fr Wounting depth fr	e (±6dB) e (±6dB) r enclosure 10dB) degrees) s y blifier power pass filter (Hz) mensions s s s s s s s s s s s s s	MF (H × W × D) Diameter Ø (H × W)	80Hz-2 53Hz-2 150 103 3 kH 100mm (ki 100mm (ki 100mm (ki 107 x 127 (5.0 x 5.0 x 112 x 127 (5.0 x 5.0 x 112 x 127 (112 x 12) 112 x 127 (112 x 12) 112 x 127 (112 x 12) 112 x 127 (112 x 12) 112 x 12 (4.41 x 4) (4.41 x 4) (4	7kHz 5kHz ye 4B 4B 4C 4B 4C 4C 4C 5kHz 4C 5kHz 4C 5kHz 4C 5kHz 4C 5kHz 4C 5kHz 5kHz 5kHz 4C 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz 5kHz		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.5in,) Uni-Q 1. 1. 1. 1.0-50W 80Hz 1.0-50W 80Hz 1.05.6km (5.34in,) 10.7.5mm (4.23in,) 10.5.54in,) 10.51mm (4.65in,) 10.51mm (4.65in,) 10.51mm (4.65in,) 10.51mm (4.65in,) 10.51mm (5.51mn (5.51mn (5.51mn (5.51mn (5.51mn (5.51	20	87dB 45Hz-34kHz 38Hz-30kHz 130° 103dB 3.8kHz 338kHz 30mm (5.25in,) Uni-Q - - 19mm (0.75in,) 10-100W 50Hz 0.5 x 200.5 x 103.6mm (7.9 x 7.9 x 4.08in,) - - 158 x 158mm (6.22 x 6.22in,) 101mm (3.98in,)		87dB 45Hz-34kH 38Hz-30kd 130° 103dB 33kHz 130mm (5.25in. 19mm (0.75 10-100W 50Hz 200.6mm (7. 104.6mm (4. 158mm (6.22) 1.45kg (3.19 101mm (3.9)	Hz) Uni-Q ;iin.) V 9in) 12in) 2in.) 1bs.)
open-backed Frequency response (±6dB) With back can / rear enclosues Frequency range (-10dB) Noninal coverage (degrees) Max SPL (dB) Crossover frequency Drive units Recommended amplifher power Recommended high-pass filter (Hz) Recommended low-pass filter (Hz) Recommended low-pass filter (Hz) Recommended low-pass filter (Hz) Croster external dimensions Cut-out dimensions Net weight Mounting depth from surface Mounting depth from su	MF HF (H x W x D) Diameter Ø Depth (H x W)		105Hz-30kHz 170° 98dB - - 110mm (4.3in.) - - 10-100W 110Hz - - 220mm (8.66in.) 110mm (4.33in.) - 196mm (7.71in.) 2.25 kg (4.95lbs) 107mm (4.21in.) - RIF160R		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequenc Drive units Recommended amp Recommended high Product external di Cut-out dimension Net weight Mounting depth fre Mounting depth fre Mounting depth fre Mounting depth fre Mounting depth fre	e (±6dB) r enclosure 10dB) degrees) sy sy siffer power pass filter (Hz) mensions s s s s s s s s s s s s s s s s s s	MF (H × W × D) Diameter Ø (H × W)	80Hz-2	7kHz 5kHz ye 4B 4B 42 12 14 14 14 10 10 10 12 12 12 12 12 12 12 12 12 12		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mm (3.5kHz) 16mm (0.6in.) 10-50W 80Hz 105.6mm (5.34in.) 107.5mm (4.23in.) 105.0mm (4.65in.) 0.50kg (1.10lbs) 103.1mm (4.06in.) 52mm (2in.) RIF100R	20	87dB 45Hz-34kHz 38Hz-30kHz 130° 103dB 3.8kHz 30mt (5.25in,) Uni-Q - - 19mm (0.75in,) 10-100W 50Hz 0.5 x 200,5 x 103,6 0.5 x 200,5 x 103,6 10,5 x 200,5 x 103,6 1,5 x 158mm (6.22 x 6.22in,) - 1.6kg (3.53lbs,) 101mm (3.98in,)		87dB 45Hz-34kH 38Hz-30kd 130° 103dB 3.8kHz 130mm (5.25in. - - 19mm (0.75 10-100W 50Hz - - 200.6mm (7. 104.6mm (4. 200.6mm (4. 145kg (3.19 101mm (6.2)	Hz) Uni-Q ;iin.) V 9in) 12in) 2in.) 1bs.)
open-backed Frequency response (±6dB) with back can / rear enclosure Frequency range (-10dB) Noninal coverage (degrees) Max SPL (dB) Crossover frequency Drive units Recommended amplifher power Recommended high-pass filter (Hz) Recommended low-pass filter (Hz) Recomme	MF HF (H x W x D) Diameter Ø Depth (H x W)		105Hz-30kHz 170° 98dB - - 110mm (4.3in,) - - 10-100W 110Hz - - 220mm (8.66in,) 110mm (4.33in,) 110mm (4.33in,) 110mm (4.33in,) 110mm (4.21in,) 2.25 kg (4.95lbs) 107mm (4.21in,) -		Frequency respons open-backed Frequency respons with back can / rea Frequency range (- Nominal coverage (Max SPL (dB) Crossover frequenc Drive units Recommended am Recommended high Product external di Cut-out dimension Net weight Mounting depth fre Mounting depth fre Mounting depth fre Mounting depth fre Mounting depth fre Mounting depth fre	e (±6dB) e (±6dB) r enclosure 10dB) degrees) 	MF (H × W × D) Diameter Ø (H × W)	80Hz-2	7kHz 5kHz 5kHz 4B 4z 4z 4z 4z 4z 4z 4z 4z 4z 4z		90Hz-27kHz 130Hz-27kHz 70Hz-40khz 150° 99dB 3.5kHz 75mr (3.5kHz) 16mr (0.6in.) 16mr (0.6in.) 10-50W 80Hz 135.6mr (5.34in.) 107.5mr (4.23in.) 138.0mr (4.55in.) 0.50kg (1.10lbs) 103.1mr (4.06in.) 52mr (2in.) RIF100R RNC100R	20	87dB 45Hz-34kHz 38Hz-30kHz 103dB 3.8kHz 30mm (5.25in.) Uni-Q - - 19mm (0.75in.) 10-100W 50Hz 0.5 x 200.5 x 103.6mm (7.9 x 7.9 x 4.08in.) - - 1.58 x 158mm (6.22 x 6.22in.) - 1.6kg (3.53lbs.) 101mm (3.98in.) -		87dB 45Hz-34kH - - - - - - - - - - - - - - - - - - -	Hz) Uni-Q ;iin.) V 9in) 12in) 2in.) 1bs.)

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

In-ceiling and In-wall		Rectangle	Rectangle		Square	Square	Square	Round		Round	Round
Model		Ci200QL	Ci160QL		Ci200QS	Ci160QS	Ci130QS	Ci200QR		Ci160QR	Ci130QR
Series		Ci-Q Series	Ci-Q Serie	s	Ci-Q Series	Ci-Q Series	Ci-Q Series	Ci-Q Serie	5	Ci-Q Series	Ci-Q Series
Nominal impedance		8Ω	208		8Ω	8Ω	8Ω	Ω8		8Ω	8Ω
Sensitivity (2.83V/1m)		90dB	89dB		90dB	89dB	87dB	90dB		89dB	87dB
Frequency response (±6dB) open-backed		35Hz-34kHz	38Hz-34ki	Hz S	5Hz-34kHz	38Hz-34kHz	45Hz-34kHz	35Hz - 34ki	Hz S	18Hz-34kHz	45Hz-34kHz
Frequency range (-10dB)"		32Hz-30kHz	32Hz-30kl	łz 3	2Hz-30kHz	32Hz-30kHz	38Hz-30kHz	32Hz-30kH	łz S	2Hz-30kHz	38Hz-30kHz
Nominal coverage (degrees)		115°	125°		115°	125°	130°	115°		125°	130°
Max SPL (dB)		107dB	105dB		107dB	105dB	103dB	107dB		105dB	103dB
Crossover frequency		2.5kHz	3.0kHz		2.5kHz	3.0kHz	3.8kHz	2.2kHz		3.0kHz	3.8kHz
	LF	200mm (8in.) Uni-Q	160mm (6.5in.)	Uni-Q 200	nm (8in.) Uni-Q	160mm (6.5in.) Uni-Q	130mm (5.25in.) Uni-Q	200mm (8.0in.)	Uni-Q 160m	ım (6.5in.) Uni-Q	130mm (5.25in.) Uni-Q
Drive units	HF	25mm (1in.)	19mm (0.75		25mm (1in.)	19mm (0.75in.)	19mm (0.75in.)	25mm (1.0i		9mm (0.75in.)	19mm (0.75in.)
Recommended amplifier power		10-150W	10-125V	1	10-150W	10-125W	10-100W	10-150W		10-125W	10-100W
Recommended high-pass filter (Hz)		40Hz	45Hz		40Hz	45Hz	50Hz	40Hz		45Hz	50Hz
	(H x W x D)	369 x 273 x 106mm	303 x 223 x 97		x 273 x 106mm	223 x 223 x 97mm	184 x 184 x 84mm	-			-
Product external dimensions	Diameter Ø	(14.53 x 10.75 x 4.17in.)	(11.93 x 8.78 x	s.84in.) (10.75	x 10.75 x 4.17in.)	(8.78 x 8.78 x 3.82in.)	(7.24 x 7.24 x 3.31in.)	289.6mm (11.	4in) 22/	.6mm (9.24in.)	193.4mm (7.61in.)
	Depth	-	-		-	-		109.8mm (4.3		3mm (3.86in.)	83.3mm (3.28in.)
		334 x 238mm	274 x 194r	ım 2	38 x 238mm	194 x 194mm	158 x 158mm	107.0000 (4.3		-	-
Cut-out dimensions	(H x W)	(13.15 x 9.37in.)	(10.79 x 7.6	4in.) (9	37 x 9.37in.)	(7.64 x 7.64in.)	(6.22 x 6.22in.)				
	Diameter Ø	-	-		-	-	-	240mm (9.45		6mm (7.71in.)	158mm (6.22in.)
Net weight		2.6kg (5.77lbs.)	2.05kg (4.51		4kg (5.3lbs.)	1.88kg (4.14lbs.)	1.4kg (3.1lbs.)	2.4 kg (5.28		8 kg (3.96lbs)	1.35 kg (2.97lbs)
Mounting depth from surface		99.8mm (3.93in.)	91mm (3.58		8mm (3.93in.)	91mm (3.58in.)	77.9mm (3.07in.)	103.3mm (4.0		lmm (3.58in.)	77.8mm (3.06in.)
Optional rough in frame		RIF200L	RIF160L		RIF200S	RIF160S	RIF130S	RIF200R		RIF160R	RIF130R
Optional rear enclosure		RNC200L	RNC160		RNC2005	RNC160S	RNC1305	RNC200R		RNC160R	RNC130R
Ideal rear volume (L)		60L	25L		60L	25L	15L	60L		25L	15L
Minimum rear volume (L)		35L	15L		35L	15L	10L	35L		15L	10L
Certification		IP64	IP64		IP64	IP64	IP64	IP64		IP64	IP64
In-ceiling and In-wall		Rectangle	Square	Square	Round	Round	Round	Square	Round	Round	Round
Model		Ci160.2CL	Ci160.2CS	Ci130.2CS	Ci200.2CR	Ci160.2CR	Ci130.2CR	Ci160ES	Ci200ER	Ci160ER	Ci130ER
Series		Ci-C Series	Ci-C Series	Ci-C Series	Ci-C Series	Ci-C Series	Ci-C Series	Ci-E Series	Ci-E Series	Ci-E Series	Ci-E Series
Nominal impedance		8Ω	8Ω	8Ω	8Ω	8Ω	8Ω	8Ω	8Ω	8Ω	8Ω
Sensitivity (2.83V/1m)		89dB	89dB	87dB	90dB	89dB	87dB	89dB	90dB	89dB	87dB
Frequency response (±6dB) open-backed		52Hz-20kHz	52Hz-20kHz	52Hz-20kHz	45Hz-20kHz	52Hz-20kHz	52Hz-20kHz	52Hz-20kHz	45Hz-20kHz	52Hz-20kHz	52Hz-20kHz
Frequency range (-10dB)"		47Hz-45kHz	47Hz-45kHz	45Hz-45kHz	35Hz-45khz	47Hz-45kHz	45Hz-45khz	46Hz-45kHz	38Hz-45kHz	46Hz-45kHz	44Hz-45kHz
Nominal coverage (degrees)		120°	120°	140°	115°	120°	140°	110°	100°	110°	135°
Max SPL (dB)		104dB	104dB	102dB	106dB	104dB	102dB	104dB	106dB	104dB	102dB
Crossover frequency		2.5kHz	2.8kHz	2.8kHz	2.4kHz	2.8kHz	2.8kHz	2.8kHz	2.8kHz	2.8kHz	2.8kHz
	LF	160mm (6.5in.) Uni-Q	160mm (6.5in.) Uni-Q	130mm (5.25in.) Uni-Q	200mm (8in.) Uni-Q	160mm (6.5in.) Uni-Q	130mm (5.25in.) Uni-Q	160mm (6.5in.) Uni-Q	200mm (8in.) Uni-Q	160mm (6.5in.) Uni-Q	130mm (5.25in.) Uni-0
Drive units	HF	16mm (0.6in.)	16mm (0.6in.)	16mm (0.6in.)	16mm (0.6in.)	16mm (0.6in.)	16mm (0.6in.)	16mm (0.6in.)	16mm (0.6in.)	16mm (0.6in.)	16mm (0.6in.)
Recommended amplifier power		10-100W	10-100W	10-80W	10-125W	10-100W	10-80W	10-100W	10-125W	10-100W	10-80W
Recommended high-pass filter (Hz)		50Hz	50Hz	55Hz	40Hz	50Hz	55Hz	50Hz	40Hz	50Hz	55Hz
	(H x W x D)	303 x 223 x 91mm (11.93 x 8.78 x 3.58in.)	223 x 223 x 90.5mm (8.78 x 8.78 x 3.56in.)	184 x 184 x 83mm (7.24 x 7.24 x 3.27in.)	-	-		223 x 223 x 88.7mm (8.78 x 8.78 x 3.49in.)		-	-
Product external dimensions	Diam 1 C				200 (- 111 1)	224 (* 10.04")	102 4 (7 (4))		200 (224 (- /2.24)	102.4 /7 / 1
	Diameter Ø	-	-	-	289.6mm (11.4in.)	234.6mm (9.24in.)	193.4mm (7.61in.)	-	289.6mm (11.4in.)	234.6mm (9.24in.)	193.4mm (7.61in.)
	Depth	-	-	-	103.3mm (4.07in.)	88.7mm (3.49in.)	81mm (3.19in.)	-	103.3mm (4.07in.)	88.7mm (3.49in.)	81mm (3.19in.)
	(H × W)	274 x 194mm (10.79 x 7.64in.)	194 x 194mm (7.64 x 7.64in.)	158 x 158mm (6.22 x 6.22in.)	-	-	-	194 x 194mm (7.64 x 7.64in.)	-	-	-
Cut-out dimensions		-	-	-	240mm (9.45in.)	196mm (7.71in.)	158mm (6.22in.)	-	240mm (9.45in.)	196mm (7.71in.)	158mm (6.22in.)
Cut-out dimensions	Diameter Ø		1 70I (2 74II)	1.35kg (3.0lbs.)	1.6kg (3.6lbs)	1.4kg (3.1lbs)	1.2kg (2.7lbs)	1.4kg (3.1lbs.)	1.6kg (3.6lbs)	1.4kg (3.1lbs)	1.2kg (2.7lbs)
Cut-out dimensions Net weight	Diameter Ø	1.87kg (4.12lbs.)	1.70kg (3.74lbs.)		1	85.2mm (3.35in.)	77.5mm (3.05in.)	85.2mm (3.35in.)	97.2mm (3.83in.)	85.2mm (3.35in.)	77.5mm (3.05in.)
	Diameter Ø	1.87kg (4.12lbs.) 84.5mm (3.33in.)	84.5mm (3.33in.)	77.1mm (3.03in.)	97.2mm (3.83in.)	05.2000 (5.5500.)	//.Jillin (J.OJIII.)				
Net weight	Diameter Ø			77.1mm (3.03in.) RIF130S	97.2mm (3.83in.) RIF200R	RIF160R	RIF130R	RIF160S	RIF200R	RIF160R	RIF130R
Net weight Mounting depth from surface Optional rough in frame	Diameter Ø	84.5mm (3.33in.) RIF160L	84.5mm (3.33in.) RIF160S	RIF130S	RIF200R	RIF160R	RIF130R	RIF160S	RIF200R	RIF160R	
Net weight Mounting depth from surface Optional rough in frame Optional rear enclosure	Diameter Ø	84.5mm (3.33in.) RIF160L RNC160L	84.5mm (3.33in.) RIF160S RNC160S	RIF130S RNC130S	RIF200R RNC200R	RIF160R RNC160R	RIF130R RNC130R	RIF160S RNC160S	RIF200R RNC200R	RIF160R RNC160R	RNC130R
Net weight Mounting depth from surface Optional rough in frame	Diameter Ø	84.5mm (3.33in.) RIF160L	84.5mm (3.33in.) RIF160S	RIF130S	RIF200R	RIF160R	RIF130R	RIF160S	RIF200R	RIF160R	

Subwoofer		Tall Rectanlge	Round	Square	Square	Round	Round
Model		Ci3160RLb-THX	Ci250RRb-THX Active Mode (KASA500)	Ci200QSb-THX Passive Mode (Crossover ON)	Ci200QSb-THX Active Mode (KASA500)	Ci200TRb Passive Mode	Ci200TRb Active Mode (KASA500)
Series		Ci-R Series	Ci-R Series	Ci-Q Series	Ci-Q Series	Ci-T Series	Ci-T Series
Nominal impedance		4Ω	-	6Ω	-	-	-
Nominal Impedance stereo mode		-	-	-	-	2 x 8Ω	2 x 8Ω
Nominal Impedance mono mode		-	-	-	-	16Ω	16Ω
Sensitivity (2.83V/1m)		92dB	-	85dB	-	87dB	87dB
Frequency response (±6dB) open-backed		20Hz-140Hz	20Hz-KASA setting	40Hz-100Hz	30Hz-140Hz	42Hz-120Hz	32Hz-120Hz
Frequency range (-10dB)		25Hz-KASA setting	16Hz-KASA setting	29Hz-140Hz	25Hz-KASA setting	38Hz-140Hz	25Hz-KASA setting
Max SPL (dB)		112dB	109dB	104dB	104dB	109dB	109dB
Crossover frequency		-	-	100Hz	-	-	-
Drive units	LF	3 x 160mm (6.5in.)	250 mm (10in.)	200mm (8in.)	200mm (8in.)	200mm (8in.)	200mm (8in.)
Required amplifier		KEF KASA500	KEF KASA500	-	KEF KASA500	-	KEF KASA500
Recommended amplifier power		-	-	10-150W	-	10-125W	-
Recommended high-pass filter (Hz)		25-80Hz*	KASA	-	KASA		-
Recommended low-pass filter (Hz)		50Hz-120Hz	50Hz-120Hz	80Hz-120Hz	50Hz-120Hz	80Hz-120Hz	60Hz-120Hz
Product external dimensions	(H x W x D)	680 x 230 x 96mm (26.77 x 9.06 x 3.78in.)	-	273 x 273 x 106mm (10.75 x 10.75 x 4.17in.)	273 x 273 x 106mm (10.75 x 10.75 x 4.17in.)	-	-
	Diameter Ø	-	346mm (13.62in.)	-	-	290mm (11.42in.)	290mm (11.42in.)
Cut-out dimensions	(H x W)	660 x 209mm (25.98 x 8.23in.)	-	238 x 238mm (9.37 x 9.37in.)	238 x 238mm (9.37 x 9.37in.)	-	-
	Diameter Ø	-	300mm (11.81in.)	-	-	240mm (9.45in.)	240mm (9.45in.)
	Depth	-	153mm (6in.)	-	-	63mm (2.48in.)	63mm (2.48in.)
Net weight		10.9 kg (24.1 lbs)	5.6kg (12.3lbs)	3.3kg (7.28 lbs)	3.3kg (7.28 lbs)	1.7kg (3.75lbs)	1.7kg (3.75lbs)
Mounting depth from surface		88.5mm (3.84in.)	147mm (5.8in.)	101.6mm (4in.)	101.6mm (4in.)	59mm (2.32in.)	59mm (2.32in.)
Optional rough in frame		RIF3160L	-	RIF200S	RIF200S	RIF200R	RIF200R
Optional rear enclosure		-	-	-	-	RNC200R	RNC200R
Ideal rear volume (L)		80L	140L	32L#	32L#	60L	60L
Minimum rear volume (L)		40L	70L	20L	20L	35L	35L
Certification		THX ULTRA, THX SELECT	THX ULTRA, THX SELECT, IP64	THX ULTRA, THX SELECT, IP64	THX ULTRA, THX SELECT, IP64	IP64	IP64

Outdoor				Amplifier	Amplifier	Bluetooth keypad and compact amplifier system	
Model		Ventura 6	Ventura 5	Model	KASA 500	BTS30	
Series		Ventura	Ventura		Selectable stereo RCA line level, or mono LFE RCA level; Stereo speaker level	Bluetooth 4.2 with Qualcomm® aptX™ codec Line-in	
Nominal impedance		6Ω	6Ω	Inputs		Coaxial	
Sensitivity (2.83V/1m)		90dB	89dB			Optical	
Frequency response (±6dB) open-backed		68Hz-20kHz	74Hz-20kHz			Stereo Mode 2 x 15W@8 Ohms Mono Mode 30W@4 Ohms Line-Out	
requency range (-10dB)		54Hz-25kHz	58Hz-25kHz	Outputs	2 x 250watts 4ohms Bridge 1 x 500watts 8ohms		
Nominal coverage (degrees)		112°	125°				
Max SPL (dB)		105dB	103dB				
Crossover frequency		3kHz	3.8kHz	Crossover frequency	40 - 140Hz or software bypass	-	
Drive units	LF	160mm (6.5in.)	130mm (5.25in.)	Bluetooth range Bluetooth capacity	-	10m 8 Devices	
	MF	-	-	Bluetooth frequency	-	2.4GHz	
	HF	25mm (1in.)	25mm (1in.)	Bluetooth power	-	2.5mW For Class 2	
Recommended amplifier power		10-125W	10-100W	Operating voltage	-	100-240VAC	
Recommended high-pass filter (Hz)		50Hz	60Hz	Frequency response	-	20Hz-20KHz	
				EQ frequency	-	100Hz +6dB, 10KHz-1dB	
Transformer taps		-	-	Signal to noise	-	90dB	
Product external dimensions	(H x W x D)	300 x 226 x 219mm (11.8 x 9 x 8.6in.)	262 x 197 x 189mm (10.3 x 7.75 x 7.4in.)	Deschutz discussion (UVWY C)	88 x 432 x 304mm (3½ x 17 x 12in.) With feet : 92 x 432 x 304mm	Amplifier Unit: 45 x 143 x 125mm (1.77 x 5.63 x 4.92in.) Keypad Unit: 45 x 45 x 40mm	
	(With bracket and knobs) (H x W x D)	300 x 226 x 263.5mm (11.8 x 9 x 10.38in.)	262 x 197 x 235mm (10.3 x 7.75 x 9.25in.)	Product dimension (H X W X D)	(3% x 17 x 12in.) With rack ears; 2 EIA rack space: 88 x 483 x 304mm	(1.58 x 1.77 x 1.77in.) Metal Frame: 1 x 71 x 71mm	
Net weight		3.8kg (8.4lbs)	2.85kg (6.28lbs)		(3½ x 19 x 12in.)	(0.04 x 2.80 x 2.80in.)	
Operating temperature range		-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	Weight	4kg (9lbs)	Amplifier Unit: 530g (1.168lbs) Keypad Unit: 40g (0.088lbs) Metal Frame: 28g (0.061lbs)	
Certification		IP65	IP65	vveignt	4Kg (7UD5)		

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