

Monitor

series

CEILING MONITOR SPEAKER

MQ 50C



TWO-WAY CEILING MONITOR SPEAKER SYSTEM

Compact design, light weight and limited depth make the RCF MQ 50C-W (white) and MQ 50C-S (silver) 2-way ceiling monitor loudspeakers ideal for use in any PA systems and background/foreground music systems where the good sound is required.

The woofer is a high-excursion, PP coated paper cone – rubber surround design mounted in a tuned enclosure. The fabric dome tweeter is loaded on a constant Q wave guide to provide natural, smooth sound reproduction on a wide dispersion angle.

Installation of the MQ 50C is fast and efficient using the built in rotating hooks. No additional brackets or rings or other supports are required: thanks to its lightweight construction the speaker can be mounted as a conventional ceiling speakers.

Connections are made to four polar loop thru Euroblock male and female to get parallel IN/OUT connection.

Wattage taps and voltage adjustments together with 16-ohm operation are selectable by means of a Rotary switch, accessible under the frontal grill.

The enclosure is constructed of high density UV resistant self-extinguishing polystyrene and includes a protective perforated steel grille. Back dome is made of aluminium. MQ 50C is available in white (MQ 50C-W) or silver (MQ 50C-S) colour. A front protection is provided for over-painting bezel and grill.

Applications

- Meeting Rooms
- Houses of Worship
- Courtrooms
- Multizone Paging/Music Systems
- Hotels
- Boardrooms
- Multi-Purpose Facilities

Features

- Max Sound Pressure Level 112 dB
- Power Program/RMS: 120W/60W (16 Ohm); 30W constant voltage line transformer 100V built-in
- 5" woofer with tropicalized cone and neodymium magnet
- 1" dome tweeter, wave-guide-loaded 120° circular dispersion
- Input and Output on removable euroblock terminals
- Power/Impedance selector available on front panel (under the grill)
- Limited weight and depth, suitable for almost any type of false ceiling
- Lightweight, UV/weather resistant, auto-extinguishing high density polystyrene, Aluminium tuned back can
- Plastic protection provided for over-painting of bezel and grill
- White or silver colour available

SYSTEM

Freq. Range (-10 dB):	70 – 20.000 Hz
Freq. Response (-3 dB):	90 - 18.000 Hz
Horz. Coverage Angle (-6 dB):	120°
Vert. Coverage Angle (-6 dB):	120°
Directivity Factor; Q (DI):	7,6 (8,1)
System Sensitivity ¹ :	91 dB, 1W @ 1m
Rated Maximum SPL:	112 dB
System Nominal Impedance:	16 Ω (bypassed)
System Input Power Rating ² :	60 W IEC, 120 W PEAK
Recommended Amplifier ³ :	60 W
Constant Voltage:	70, 7V, 100V and Bypass
Power Taps:	5W, 10W, 20W, 30W [100V] 2,5W, 5W, 10W, 15W [70, 7V]

TRANSDUCERS

Low-Frequency:	5" (127mm)
High-Frequency:	1" (25.4 mm)

PHYSICAL

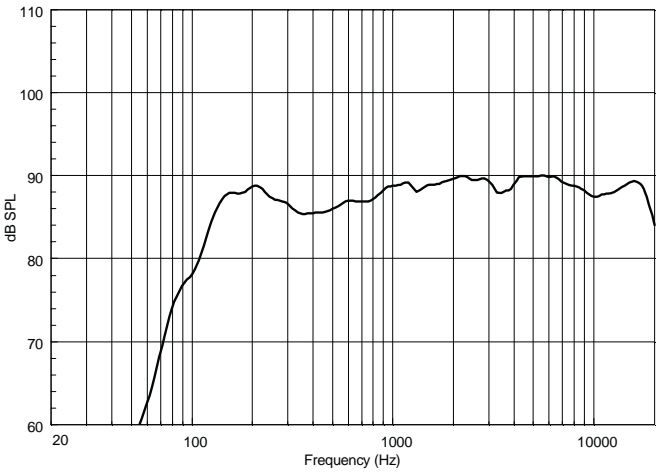
Enclosure:	Auto-extinguishing high-density polystyrene, UV stabilized
Grille:	Matching perforated steel grille
Input Connectors:	Euroblock
Dimensions (DxP):	10.43"x6.1" (265x155 mm)
Net Weight:	4.8 lb. (2.2 kg)

¹ Measured on axis in the far field with 1 watt (2.00 V RMS, 4) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300Hz to 3kHz.

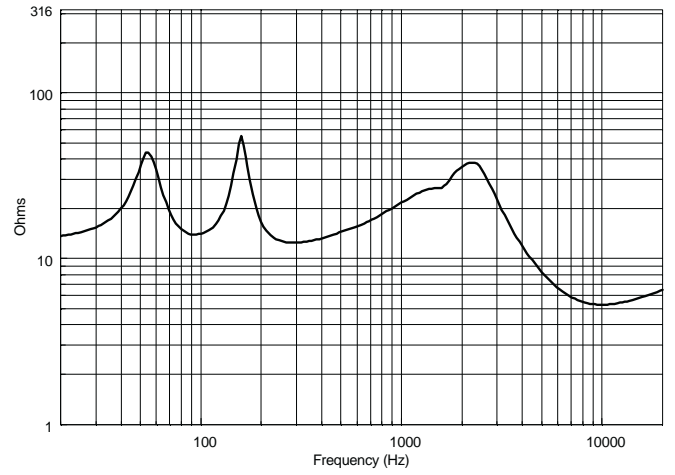
² IEC Spectrum, Peak for 2 hours with +4.5 dB crest factor.

³ Recommended Amplifier is a power capability value that should be taken as a guide.

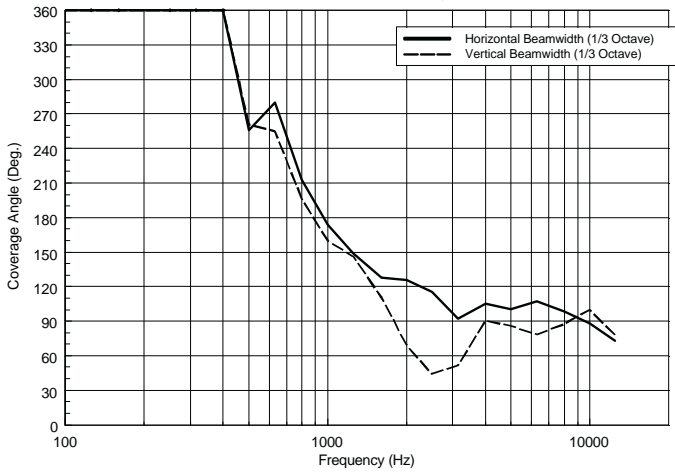
Response 1W/1m



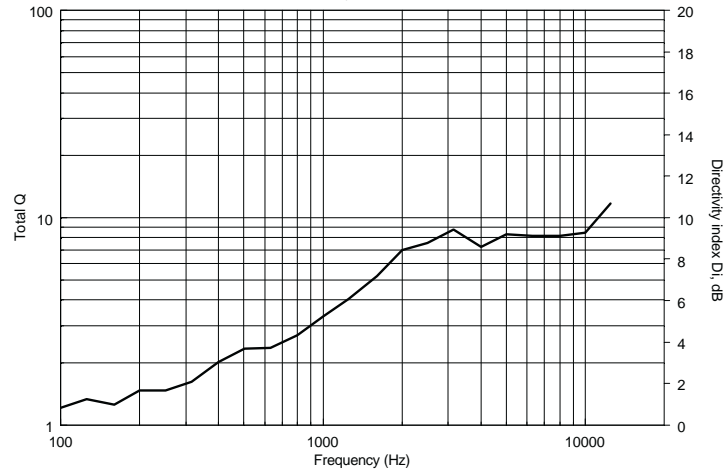
Impedance



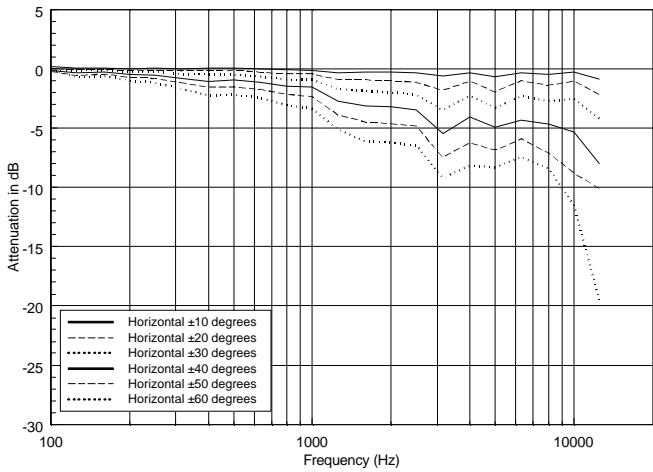
Beamwidth vs. Frequency



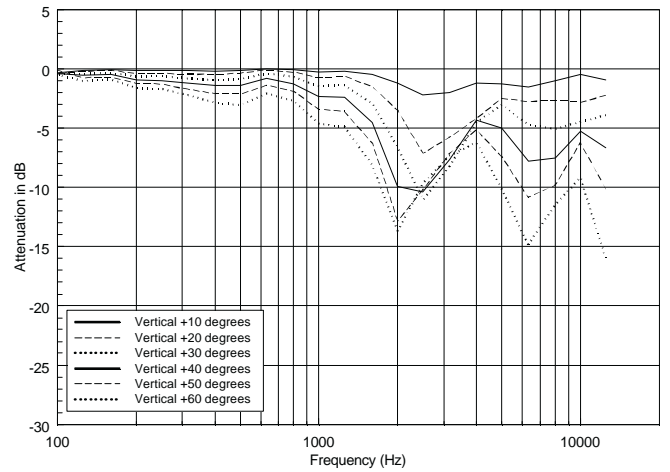
Directivity Index and Q



Normalized Horizontal off-axis Response

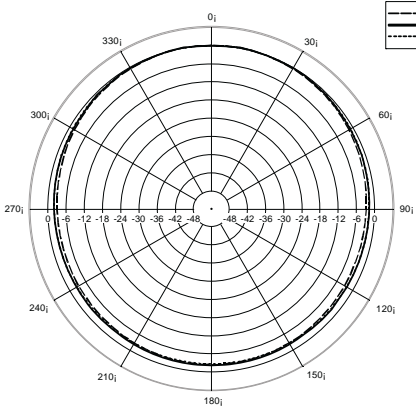


Normalized Vertical off-axis Response. Above the box

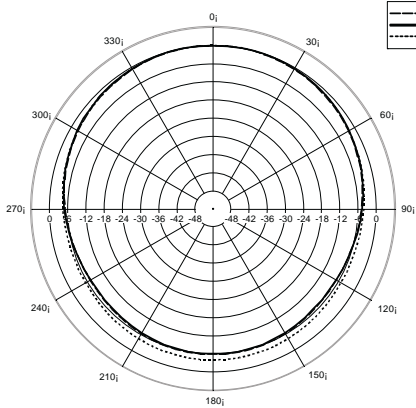




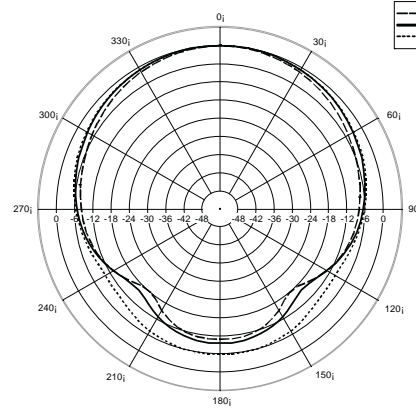
Horizontal 1/3 Polar Plot



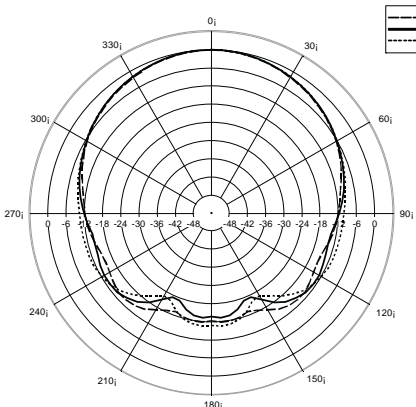
315
250
200



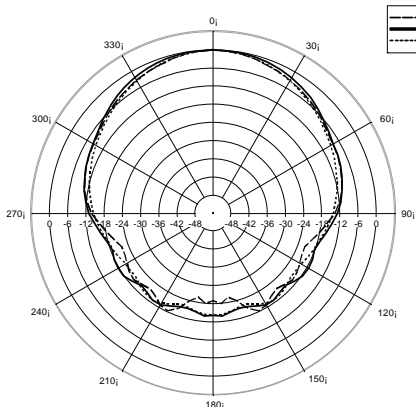
630
500
400



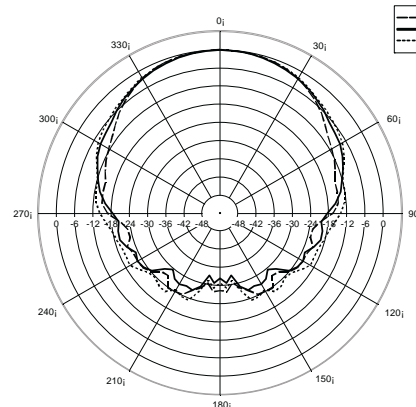
1250
1000
800



2500
2000
1600

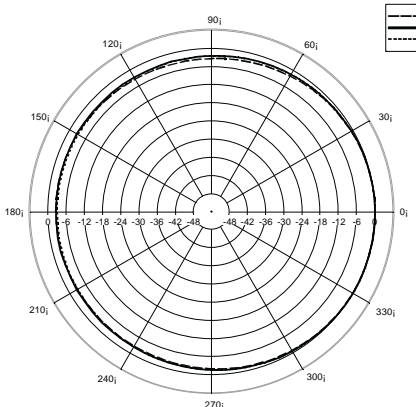


5000
4000
3150

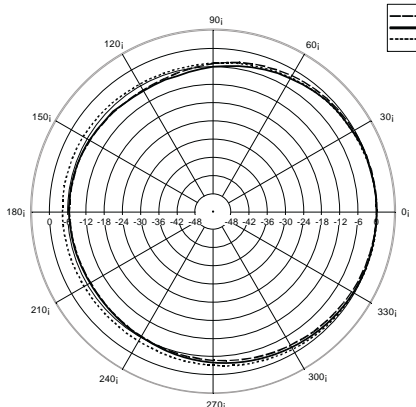


10000
8000
6300

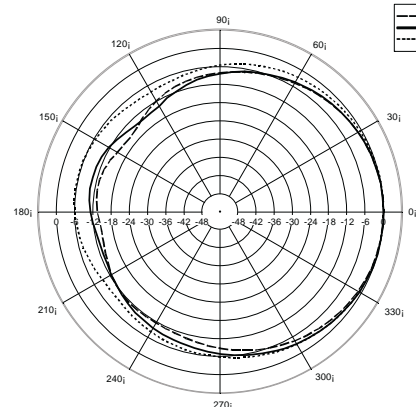
Vertical 1/3 Polar Plot



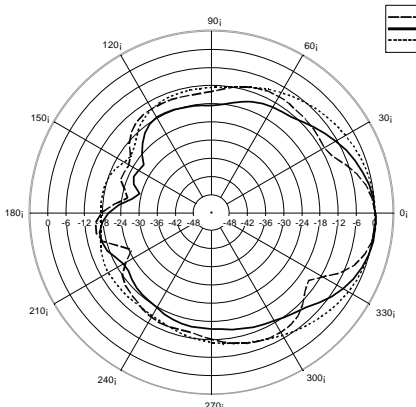
315
250
200



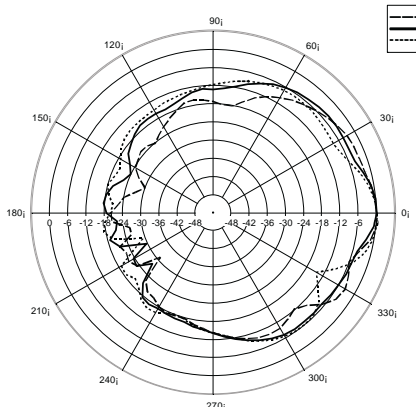
630
500
400



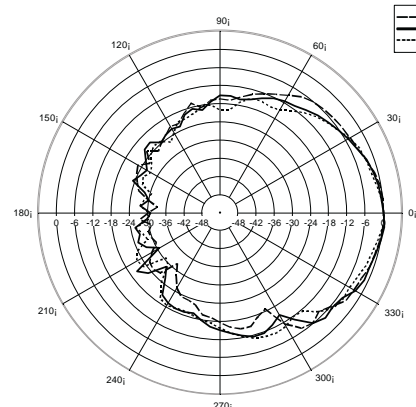
1250
1000
800



2500
2000
1600



5000
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3150



10000
8000
6300

CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS")
 The following are "Part 2 Products" CSI-type specifications. It is assumed that "Part 1 General – Administrative and Procedures" and "Part 3 Execution – Installation and Maintenance" are part of an overall audio system or project specification.
 PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

- A. RCF, Via Raffaello 13, 42010 Mancasale, Reggio Emilia, Italy.
- B. Model number: MQ 50C

2.02 Design

Configuration	2 way speaker
LF Sub-section/HF Sub-section	LF 5 - HF 1"

2.03 Acoustical Proprieties

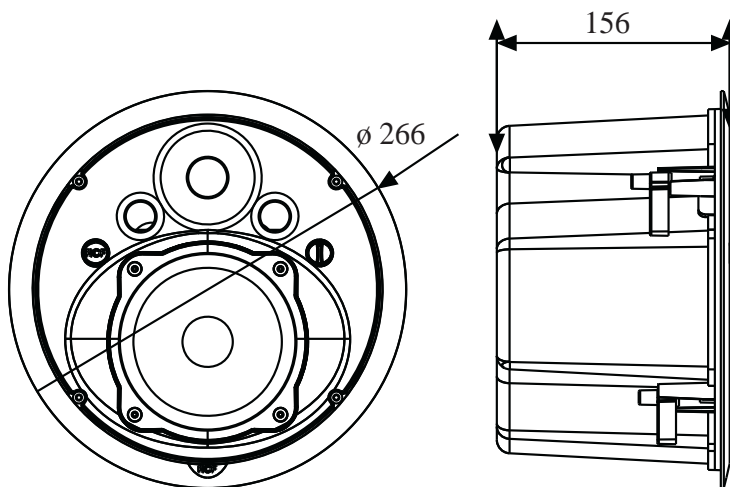
Nominal dispersion angle:	Horizontal: 120° - Vertical: 120°
Axial frequency range:	70 – 20.000 Hz

2.04 Physical Properties

Cabinet:	Auto-extinguishing high-density polystyrene, UV stabilized
Color:	white / silver
Grille:	Custom perforated steel grille with open-cell poly fiber backing
Input Connectors:	Euroblock
Dimensions (DxP):	10.43"x6.1" (265x155 mm)
Weight:	4.8 lb. (2.2 kg)

2.05 Accessories

- Paint Shield
- Grille
- Removable Connector



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