

MONITOR SERIES

COMPACT FULL-RANGE SPEAKER

33T / 33WT



Compact design and a wealth of mounting options make the RCF Monitor 33T (black) and Monitor 33/WT (white) compact 2-way loudspeakers ideal for use in business music systems.

The woofer is a high-excursion, carbon fibre design. The Mylar dome tweeter is mounted on a constant directivity horn to provide natural, smooth sound reproduction and high resistance to weather.

Installation of the Monitor 33T is fast and efficient using the accompanying MA3-5 (MA3-5W, white) adjustable mounting bracket.

Four M6 threaded inserts add to the speaker's flexibility.

Connections are made to recessed color coded, spring-loaded terminals. Wattage taps, voltage adjustments, and 4-ohm operation are selectable by means of two detented rotary switches. The enclosure is constructed of high density, scratch resistant polystyrene and includes a protective perforated steel grille and connection cover. Available in black (Monitor 33T) or white (Monitor 33/WT).

Applications

- Foreground/Background Music
- Distributed Speech Reinforcement
- AV Production/Playback
- Near-field Monitoring

Features

- 4.75" high-efficiency carbon fiber woofer
- 0.5" Mylar dome tweeter loaded by a 110°x100° constant directivity horn
- Built-in, multi-tap constant voltage transformer
- Built-in, low-inductance passive crossover (LICC)
- Lightweight, UV/weather resistant, high density polystyrene, trapezoidal shaped enclosure for multiple applications and minimum visual intrusion
- Integrated mounting points for use with optional mounting hardware
- Articulated surface mount hardware included

SYSTEM

Freq. Range (-10 dB):	100Hz-20kHz
Freq. Response (-3 dB):	150Hz-20kHz
Horz. Coverage Angle (-6 dB):	100° averaged 800Hz to 16kHz
Vert. Coverage Angle (-6 dB):	110° averaged 800Hz to 16kHz
Directivity Factor; Q (DI):	7 (8) averaged 800Hz to 16kHz
System Sensitivity ¹ :	88 dB, 1W @ 1m
Rated Maximum SPL:	105 dB, @ 1m
System Nominal Impedance:	4 Ω (bypassed)
System Input Power Rating ² :	40W IEC, 160W Peak
Recommended Amplifier ³ :	250W
Constant Voltage:	25V, 50V, 70V, 100V and Bypass
Power Taps:	1W, 2.5W, 5W, 10W, 20W and Bypass

TRANSDUCERS

Low-Frequency:	4.75" (120mm) carbon fibre woofer
High-Frequency:	0.5" (13mm) Mylar dome tweeter

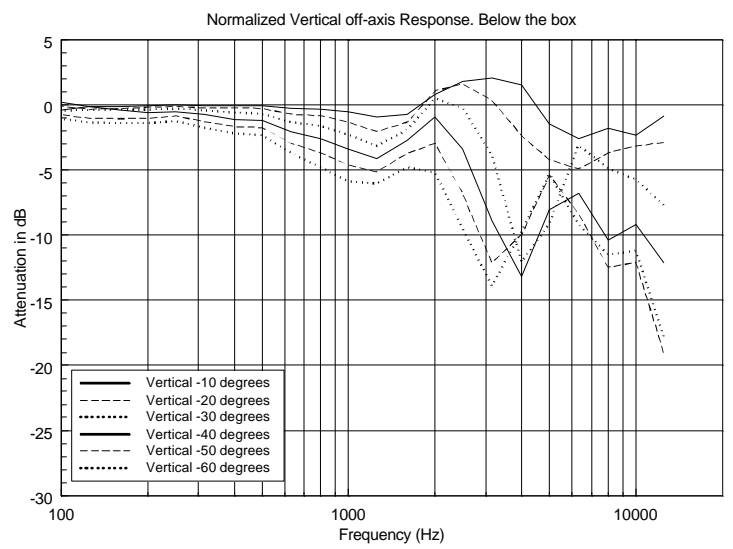
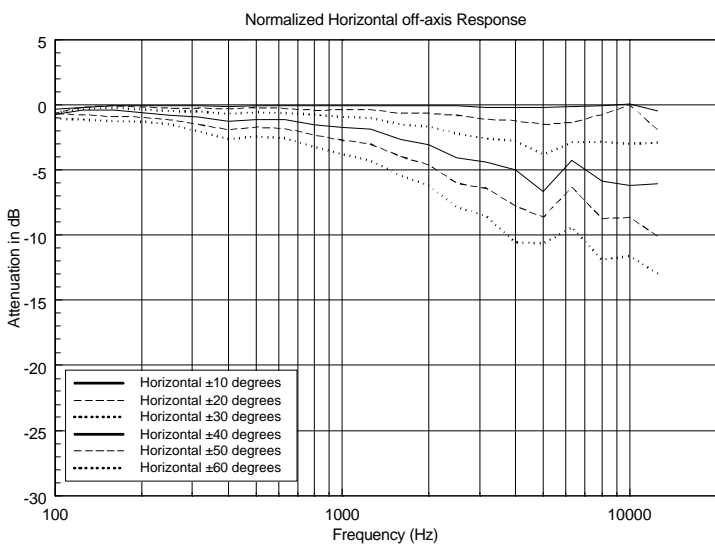
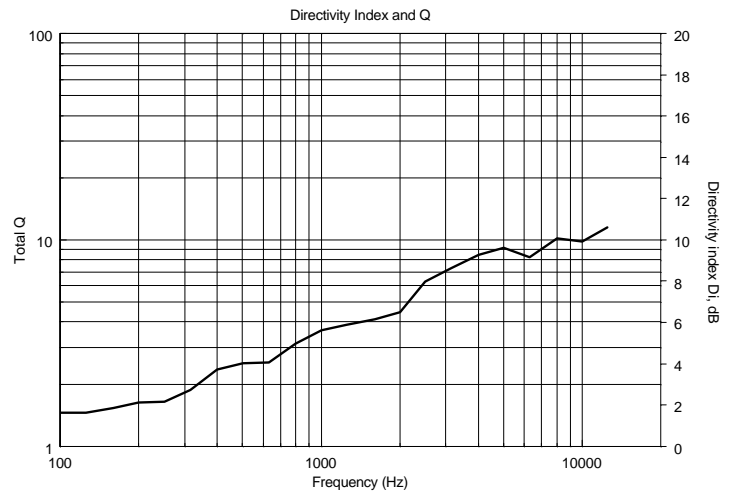
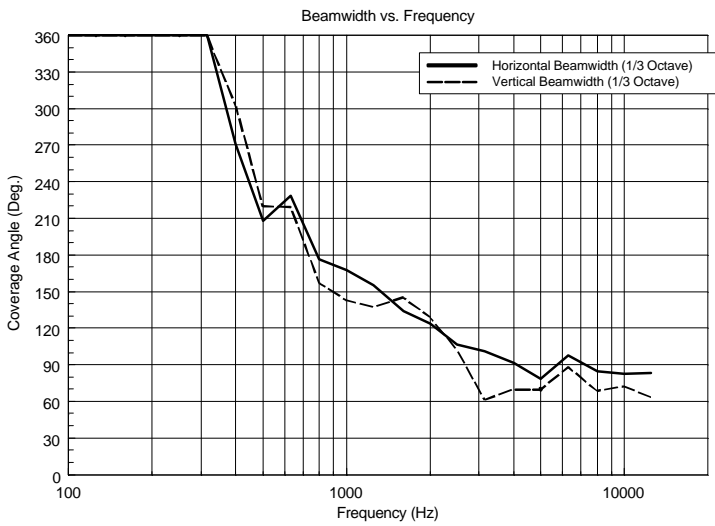
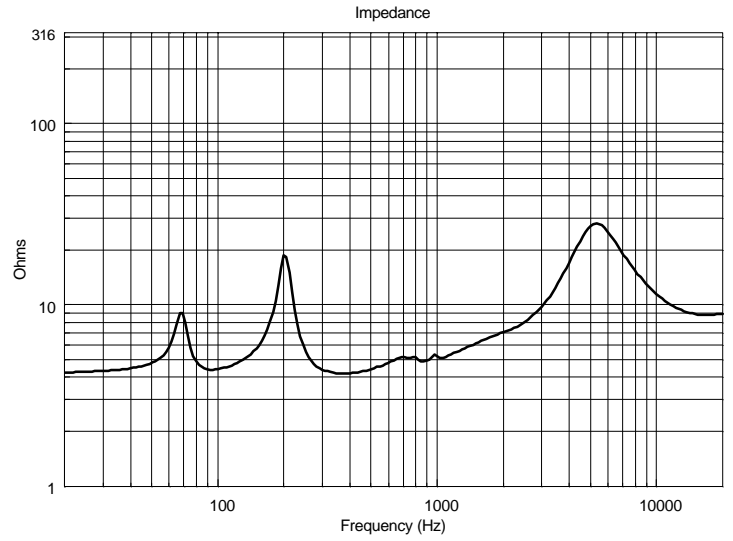
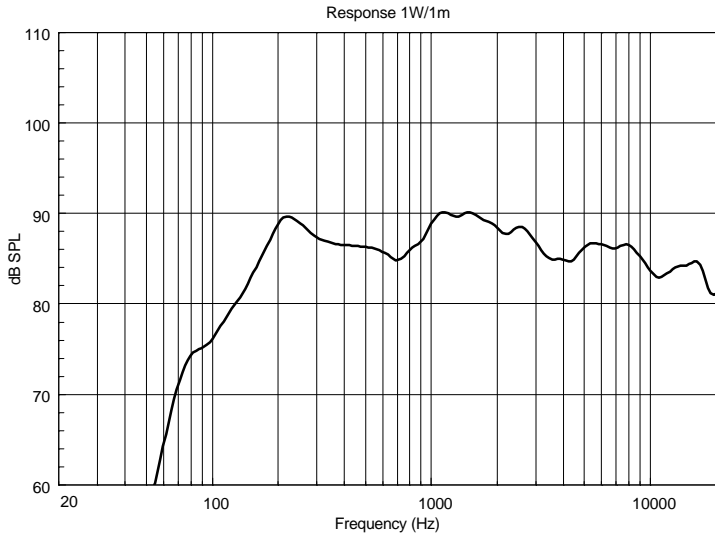
PHYSICAL

Enclosure:	45° back angles, high density polystyrene
Attachment Inserts:	2 points M6 threaded inserts on back 2 points M6 threaded inserts on top and bottom
Grille:	Matching perforated steel grille
Input Connectors:	Push connector plate
Dimensions (HxWxD):	8.50"x6.06"x5.35" (216x154x136 mm)
Net Weight:	4.9 lb. (2.2 kg)

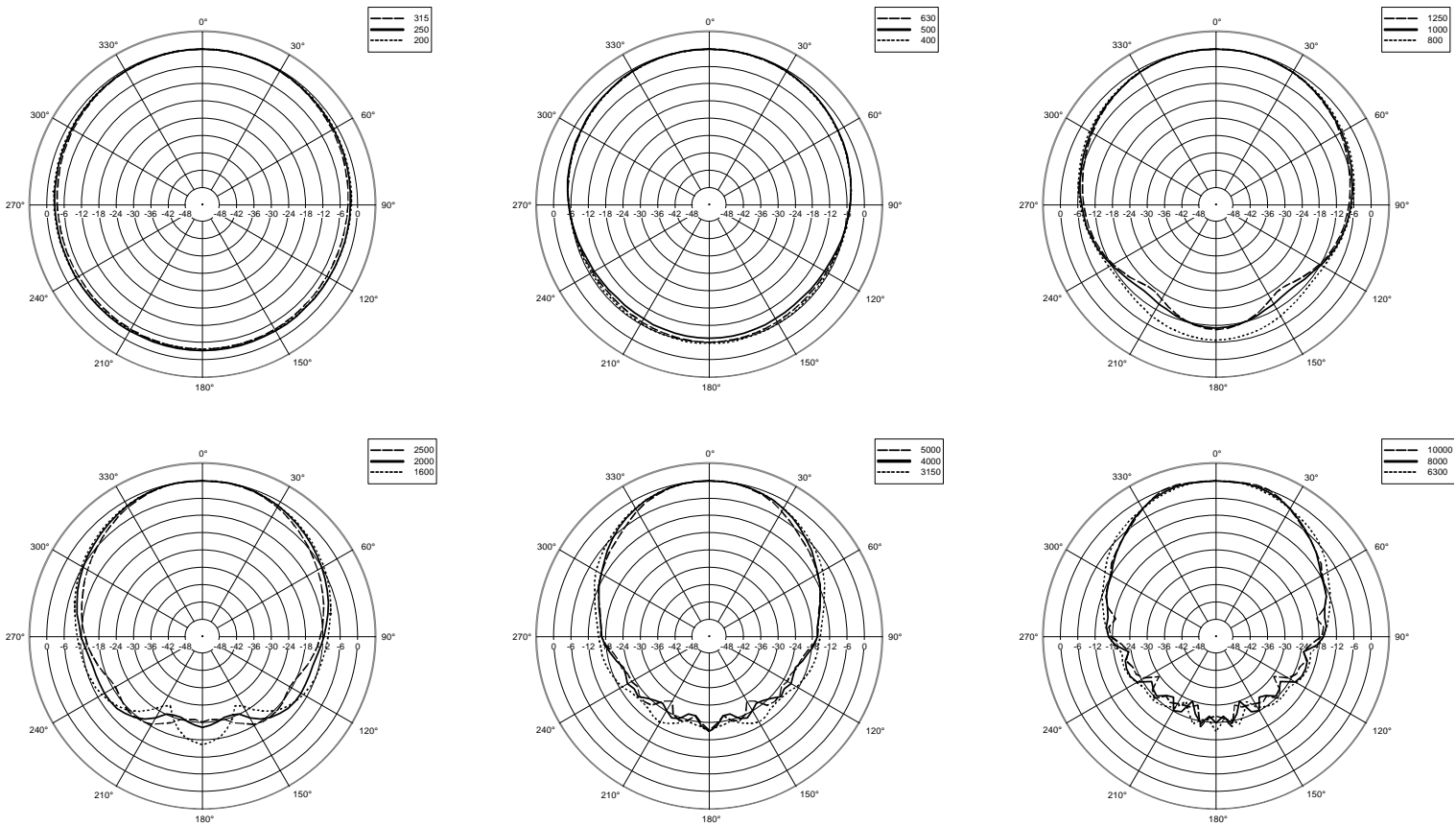
¹ Measured on axis in the far field with 1 watt (2.00 V RMS, 4) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300Hz to 3kHz.

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

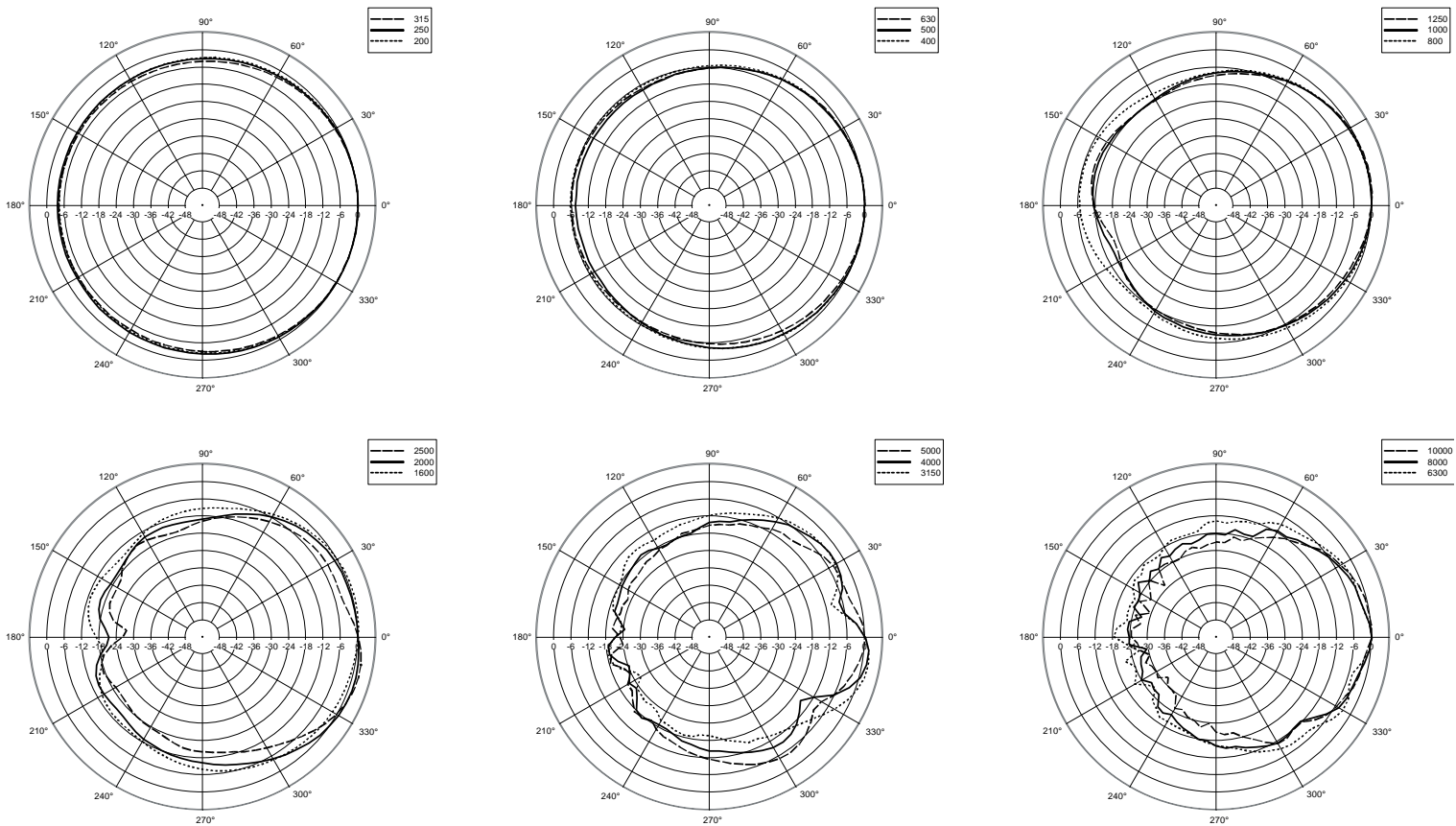
³ Recommended Amplifier is a power capability value that should be taken as a guide.



Horizontal 1/3 Polar Plot



Vertical 1/3 Polar Plot



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: Monitor 33T

2.02 Design

Configuration	Compact 2-Way Speaker
LF Sub-section	4.75 in. carbon fibre cone low-frequency driver
HF Sub-section	0.5 in. Mylar dome high-frequency driver

2.03 Acoustical Proprieties

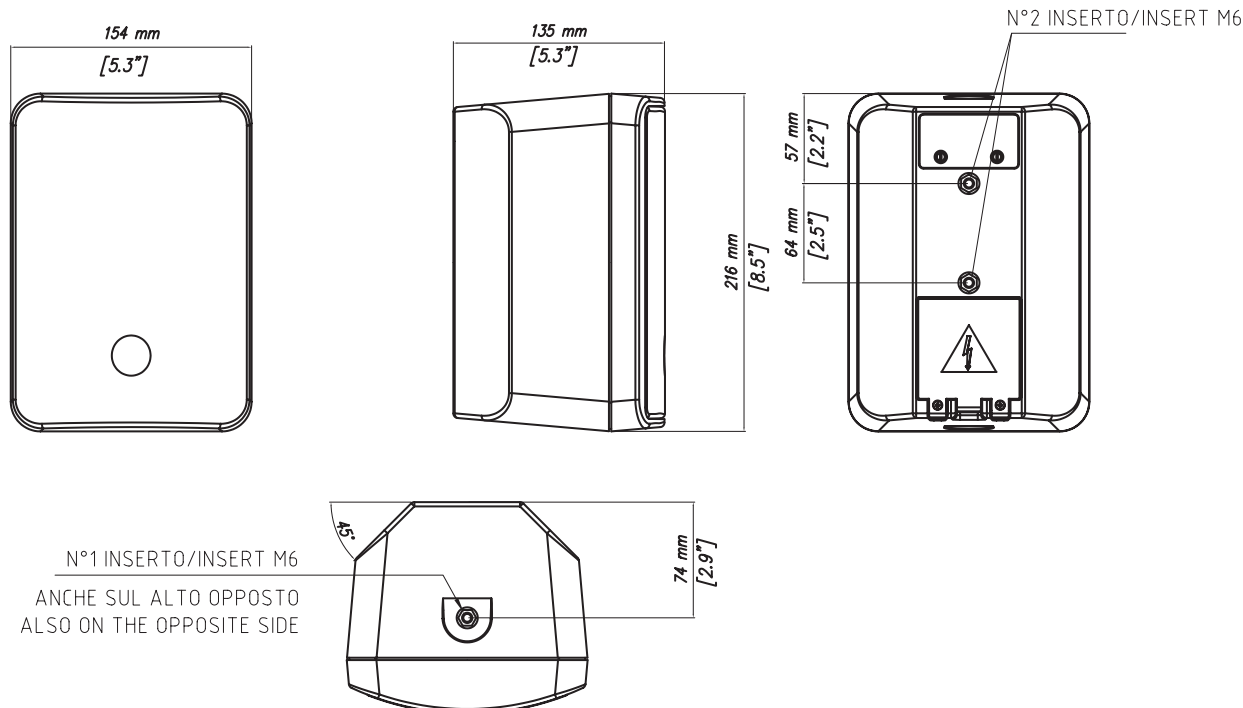
Nominal dispersion angle (–6 dB points):	Horizontal: 100° averaged 800 Hz to 16 kHz - Vertical: 110° averaged 800 Hz to 16 kHz
Axial Frequency Response (–3 dB points):	150 Hz – 20 kHz
Axial Frequency Range (–10 dB points):	100 Hz – 20 kHz
Axial Sensitivity (dB SPL/1 W @ 1 m):	88 dB
System Input Power Rating ² :	40W IEC; 160W Peak
Power Taps:	1, 2.5, 5, 10, 20 watts, and Bypass
Constant Voltage Taps:	25, 50, 70, 100 volts, and Bypass
Nominal impedance:	4 Ω (bypassed)

2.04 Physical Properties

Enclosure Shape:	Trapezoidal
Enclosure Material:	High-density polystyrene
Enclosure Finish:	Black (or white) scratch-resistant paint
Connectors:	Spring-loaded terminals
Mounting/Suspension Hardware:	Two M6 threaded inserts on back - Two M6 threaded inserts on top and bottom
Grille:	Matching perforated steel grille
Dimensions (H x W x D):	8.50”x6.06”x5.35” 216x154x136 mm
Weight:	4.9 lb - 2,2 Kg

2.05 Accessories

MA 3B - MA 3W	“U” brackets for wall mounting MR 33T (MA 3B black colour) and MR 33WT (MA 3W white colour)
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