M501

TWO WAY PASSIVE SPEAKER SYSTEM

MAIN APPLICATIONS

- Conference rooms
- Performance Arts Spaces
- Theatres & Auditoria
- Background and Foreground Business Music
- Small scale PA
- Delay Fill
- Houses of worship
- Theme parks and leisure venues
- Gymnasiums and small/medium sports arenas
- Portable corporate AV
- Bars, pubs and nightclubs

MAIN FEATURES

- High Quality 2-way passive loudspeaker
- 1 x 5.5" woofer, vented
- 1 x 1" in driver, on 90°x90° CD horn
- High Power Handling 'Low Impedance Compensated Crossover', with electronic protection for the driver
- 100W AES power handling
- Steel Front Grille with robust double mesh polyester clothing
- Rotatable RCF front logo
- Installation points are available on the rear panel, top and bottom
- All models have a 4-pin EUROBLOCK connector (audio input and parallel link output)

DESCRIPTION

The M501 faithfully deliver high-output, high-definition sound for a wide variety of professional applications, despite its compact size. All system elements, including drivers, crossover/filter components, and the enclosures themselves are designed to meet RCF's rigorous standards for reliablility and durability.
M501 is the smallest and most compact of the Media Series, adding new versatility to the range with its exceptional performance to size ratio. It provides a compact yet punchy and sonically vibrant solution for small-scale performance sound reinforcement and more demanding A/V applications as well as high performance speech reproduction where clarity and vocal character are paramount. The system operates in fully passive mode with an internal passive crossover/filter network both dividing the signal and providing critical equalization functions.
The system includes a high-level crossover network that features markedly lower (than conventional) induction values in series with the woofer. We call this innovation LICC (Low Impedance Compensated Crossover). The benefit is delay reduction, reduced phase shift and superior transient response. Dynamic high-frequency driver protection is accomplished with a new RCF exclusive - Active Mosfet Compression Driver Protection System, (AMCDP) chosen to complement the power curve of the driver.
Each M501 includes a robust 5,5" woofer, 1,2" voice coil, mounted in an optimally vented enclosure and a 1" compression driver with a 1" voice coil, specifically designed to provide smooth, bright and clear high-frequency reproduction on a 90°x90° CD horn.
The SPL and the level of undistorted sound the M501 can reach are far above any expectation from such a compact solution.
The design and look of the Media Series is consistent with the higher power Compact and H Series models, the new Media Series offer various installation options, from an elegant swivel bracket to easy to install wall mounting U brackets.
The steel front grilles are protected with a robust double mesh polyester clothing. The front RCF logo is easily rotatable. Media models presents high power Euroblock audio input and link output connectors.

ACOUSTICAL SPECIFICATIONS

Frequency response:	80 Hz ÷ 20 kHz
Max SPL:	112 dB
Sensitivity 1W/1m:	90°
Coverage angle:	90°
Compression driver:	1", 1" voice coil
Woofer:	5.5", 1.2" voice coil
Power handling:	80W

INPUT SECTION

Input signal (Impedance):	8 Ω
Input connector:	Removable screw terminal block
Output signal connector:	Removable screw terminal block

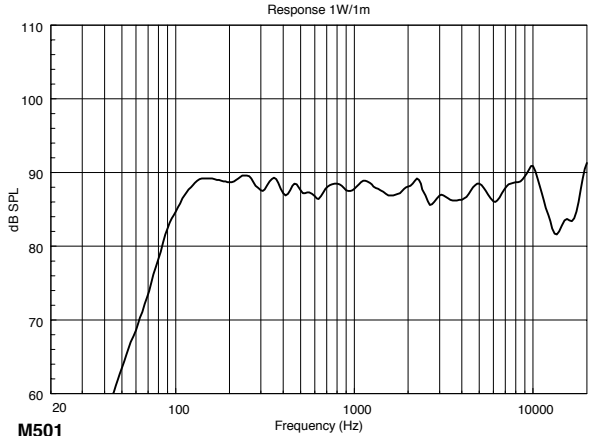
PROCESSOR SECTION

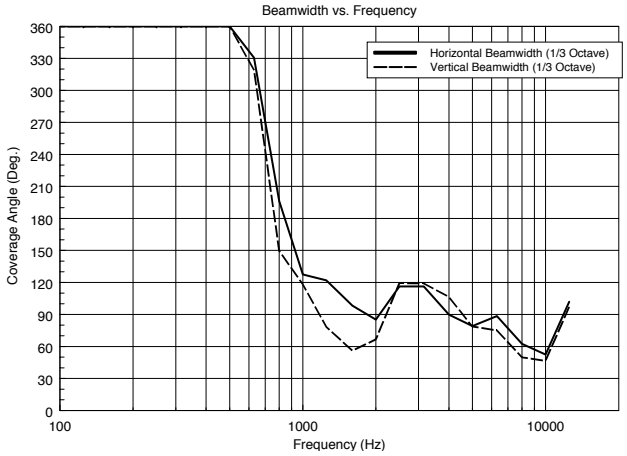
Crossover frequencies:	1900 Hz
Protections:	HF Driver Dynamic Mosfet

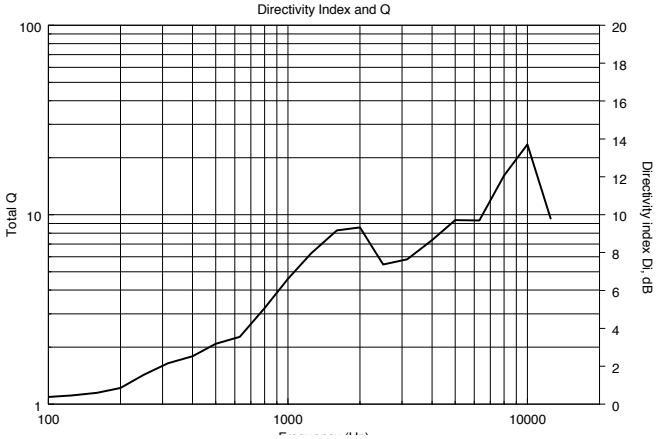
PHYSICAL

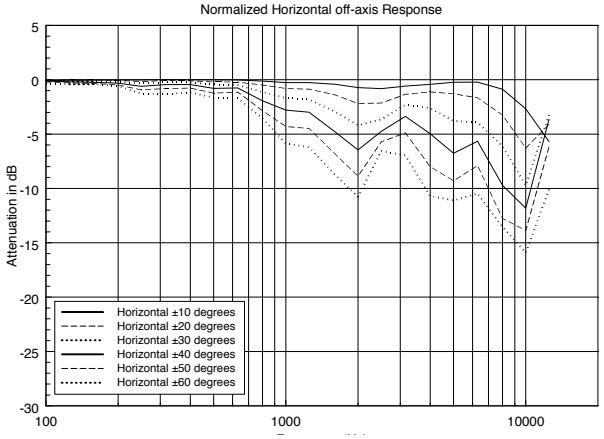
Cabinet:	Trapezoidal, 8° angle, 12 mm MDF
Dimensions (HxWxD):	11.93"x6.89"x7.28" - 303x175x185 mm
Weight:	5 kg (11 lbs)
Hardware:	6XM6; 2XM10 ;WALL MOUNT ;U-BRACKET H
Handles:	-
Pole Mount / Cap:	-
Colour:	Black

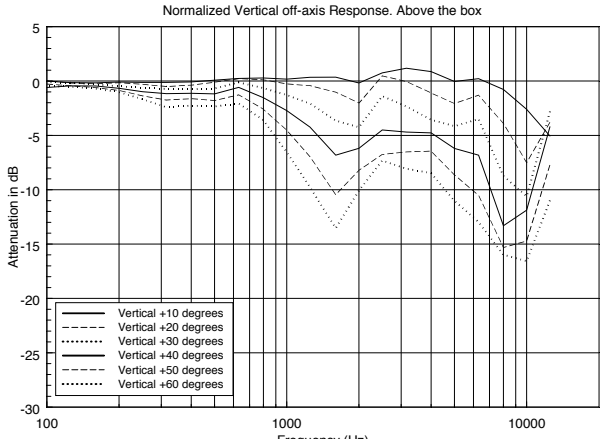
M501

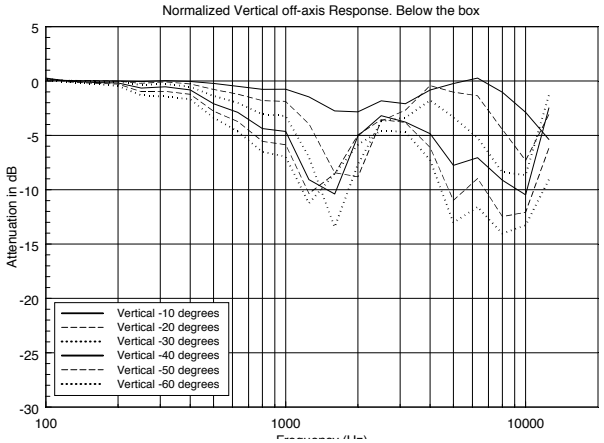

Response 1W/1m
dB SPL
110
100
90
80
70
60
20
100
1000
10000
Frequency (Hz)
M501


Beamwidth vs. Frequency
Horizontal Beamwidth (1/3 Octave)
Vertical Beamwidth (1/3 Octave)
Coverage Angle (Deg.)
360
330
300
270
240
210
180
150
120
90
60
30
0
100
1000
10000
Frequency (Hz)


Directivity Index and Q
Total Q
Directivity index Di, dB
100
10
1
20
18
16
14
12
10
8
6
4
2
0
100
1000
10000

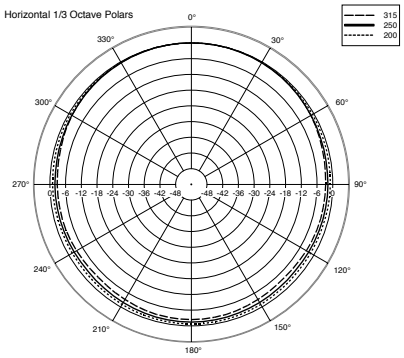

Normalized Horizontal off-axis Response
Attenuation in dB
5
0
-5
-10
-15
-20
-25
-30
Horizontal ±10 degrees
Horizontal ±20 degrees
Horizontal ±30 degrees
Horizontal ±40 degrees
Horizontal ±50 degrees
Horizontal ±60 degrees
100
1000
10000

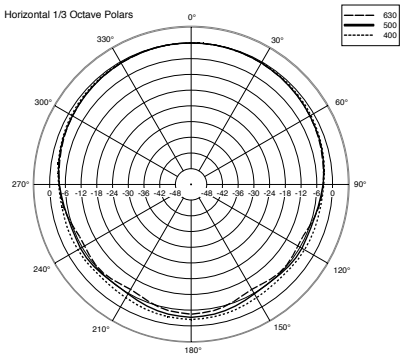

Normalized Vertical off-axis Response. Above the box
Attenuation in dB
5
0
-5
-10
-15
-20
-25
-30
Vertical +10 degrees
Vertical +20 degrees
Vertical +30 degrees
Vertical +40 degrees
Vertical +50 degrees
Vertical +60 degrees
100
1000
10000

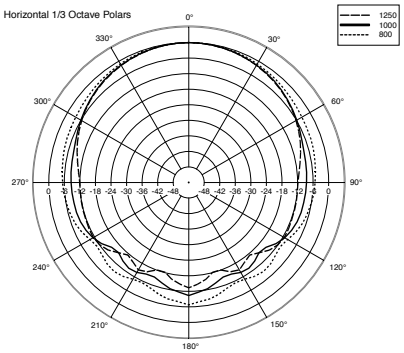

Normalized Vertical off-axis Response. Below the box
Attenuation in dB
5
0
-5
-10
-15
-20
-25
-30
Vertical -10 degrees
Vertical -20 degrees
Vertical -30 degrees
Vertical -40 degrees
Vertical -50 degrees
Vertical -60 degrees
100
1000
10000

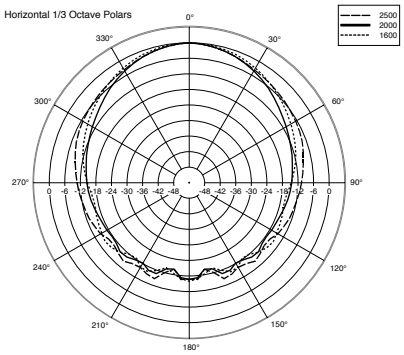
M501

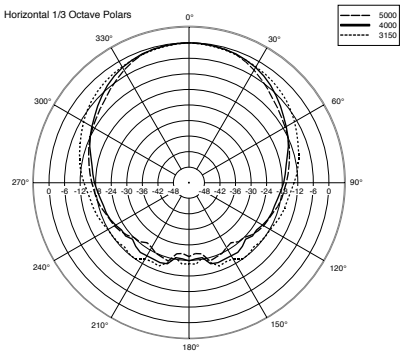
HORIZONTAL 1/3 POLAR PLOT

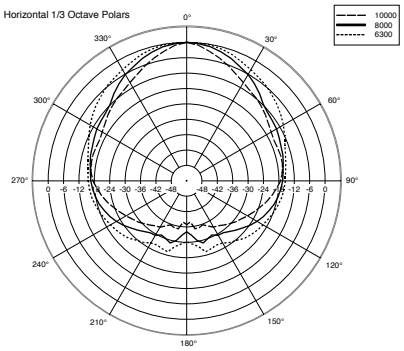




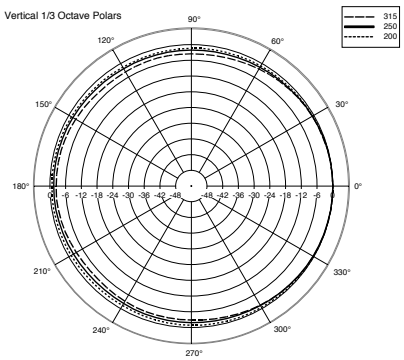


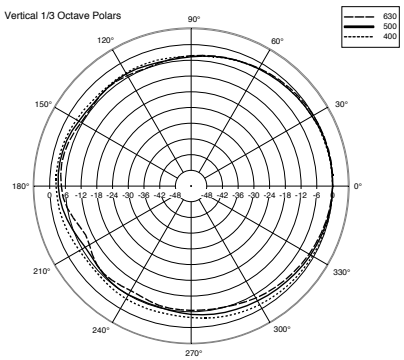


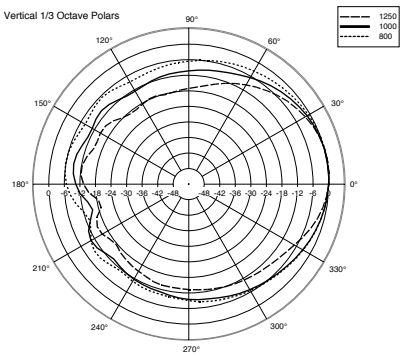


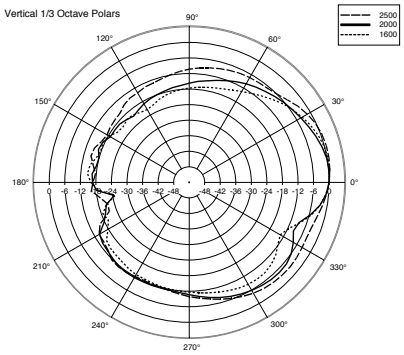


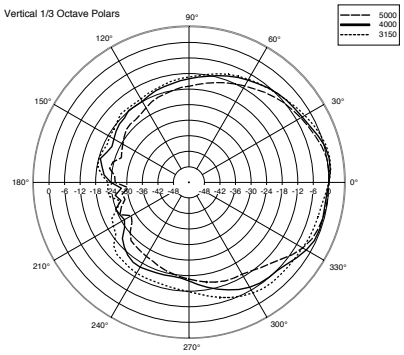
VERTICAL 1/3 POLAR PLOT

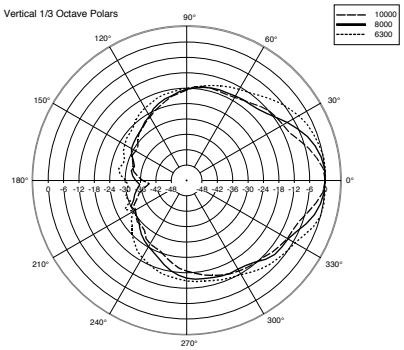










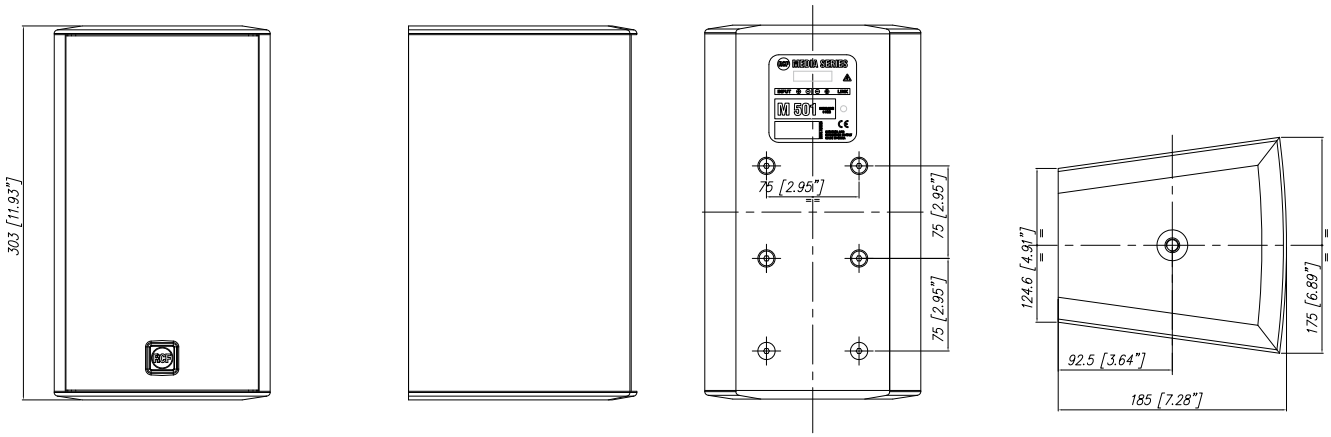


M501

PART NUMBERS

13041002

DIMENSIONS (All data are in mm)



ACCESSORIES

AC M501 H-BR	Pair of horizontal bracket for mounting M501 speakers on the wall.
AC WM-M	Wall mount swivel bracket for M501, M502, M601, M602, M801.

RCF products are continually improved. All specifications are therefore subject to change without notice.