# C5215-99

## TWO WAY PASSIVE SPEAKER SYSTEM

## MAIN APPLICATIONS

- Permanent installations
- Main reinforcement in small and medium spaces
- High-level AV playback
- Live music reinforcement
- Large speech systems

## MAIN FEATURES

- Very high efficiency design
- One 15" high-output RCF PRECISION woofer
- One 1.4" RCF PRECISION compression driver
- 90° x 90° CMD ('Constant Matching Design') constant directivity horn
- Rotatable horn for horizontal mounting
- Dual-function design: built in passive crossover or external bi-amp
- Trapezoidal enclosure made of 15 mm birch plywood
- HF driver with 'Active Mosfet Compression Driver Protection' (AMCDP)
- 'Low Impedance Compensated Crossover' (LICC)
- Rigging inserts: 2 x M10 (lateral)
- 2 (top and bottom) multiplates for mounting

## DESCRIPTION

C5215-99 belongs to RCF ACUSTICA - NEW COMPACT SERIES and is a full range extremely versatile wide-dispersion, two-way loudspeaker system offering substantial power and efficiency for several professional applications that include main sound systems for permanent installations, plus portable systems and supplementary fill for larger systems.

RCF exclusive 'Constant Matching Design' technology helps guarantee an optimal transition between the high frequency horn polar pattern and the low frequency woofer directivity.

The hi-frequency transducer is a 1.4" RCF PRECISION compression driver with a 2.5" voice coil.
The low-frequency transducer is a 15" RCF PRECISION woofer with a 3" voice coil.

The system includes a high-level crossover network that features markedly lower (than conventional) induction values in series with the woofer. This innovation is named LICC ('Low Impedance Compensated Crossover': its benefits are 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 driver power curve.
The internal crossover can be easily bypassed for bi-amplification.

The cabinet is made of Baltic birch (heavy duty painted) and allow different installation options, as it is equipped with top and bottom 'Multiplates' for either wall or suspended mounting with chains.
Installation points are available on its rear panel as well.
The steel front grille is protected with a double layer polyurethane fabric.
The front RCF logo is easily rotatable.

Connections are made through two Neutrik Speakon NL4 connectors (audio input and parallel link
output).

### SYSTEM

| | |
|---|---|
| Model: | C5215-99 |
| Part number: | 13000313 |
| Frequency response (-10 dB): | 48 Hz ÷ 20 kHz |
| Horizontal coverage angle (-6 dB): | 90° |
| Vertical coverage angle (-6 dB): | 90° |
| Directivity factor (Q): | 11 |
| Sensitivity (1 W, 1 m): | 100 dB |
| Max. SPL (peak power, 1 m): | 133 dB |
| Impedance: | 8 Ω |
| Power: | 500 W (RMS), 2000 W (peak) |
| Recommended amplifier: | 1000 W |
| HF protection: | dynamic |
| Crossover: | 1.2 kHz |

### TRANSDUCERS

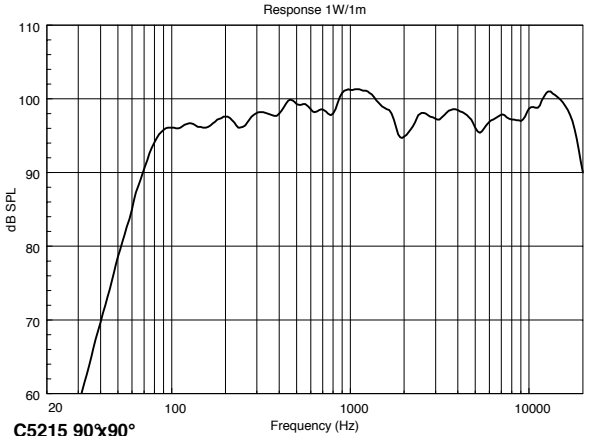
| Low frequency range | |
|---|---|
| Transducer: | 15" woofer with 3" voice coil |
| Impedance: | 8 Ω |
| Power: | 400 W (AES), 800 W (peak) |
| Sensitivity (1 W, 1 m): | 99 dB |

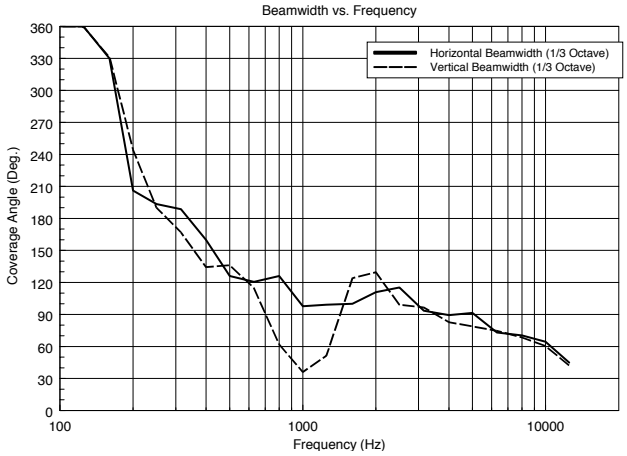
| High frequency range | |
|---|---|
| Transducer: | 1.4"driver with 2.5" voice coil |
| Impedance: | 8 Ω |
| Power: | 100 W (AES), 200 W (peak) |
| Sensitivity (1 W, 1 m): | 111 dB |

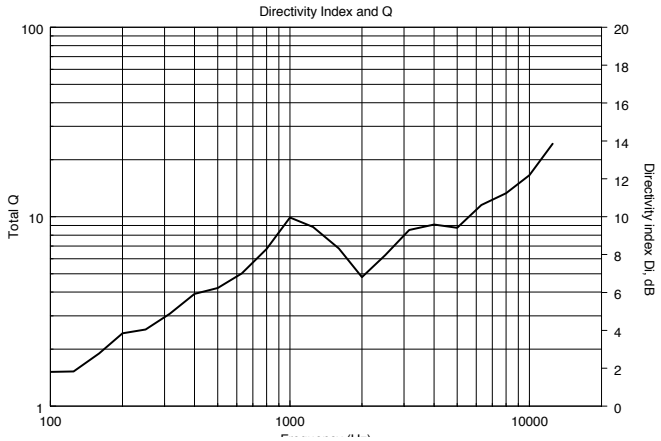
### PHYSICAL

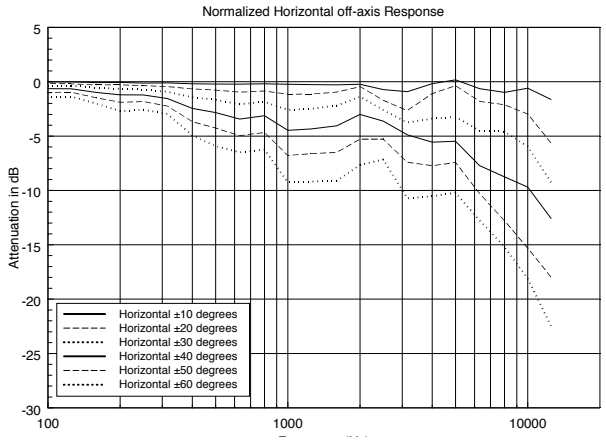
| | |
|---|---|
| Enclosure: | trapezoidal, 20° side angles, 15 mm birch plywood construction |
| Rigging inserts: | 2 x M10 (lateral), multiplates (top and bottom) |
| Colour: | black |
| Grille: | perforated powder-coated steel covered with double layer polyurethane fabric |
| Input connectors: | 2 x SPEAKON® NL4 |
| Dimensions (w, h, d): | 16.93", 27.36", 18.11" (430, 695, 460 mm) |
| Weight: | 76.72 lbs (34.8 kg) |

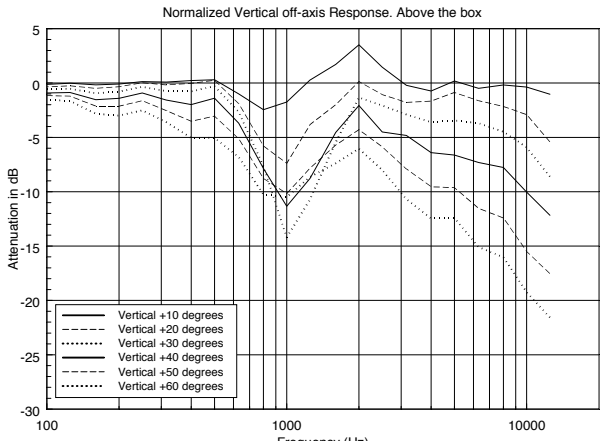
# C5215-99

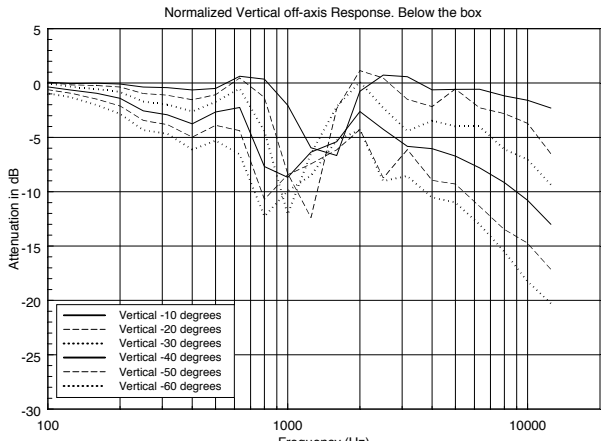

Response 1W/1m
dB SPL
Frequency (Hz)
C5215 90°x90°


Beamwidth vs. Frequency
Horizontal Beamwidth (1/3 Octave)
Vertical Beamwidth (1/3 Octave)
Coverage Angle (Deg.)
Frequency (Hz)


Directivity Index and Q
Total Q
Directivity index Di, dB


Normalized Horizontal off-axis Response
Attenuation in dB
Horizontal ±10 degrees
Horizontal ±20 degrees
Horizontal ±30 degrees
Horizontal ±40 degrees
Horizontal ±50 degrees
Horizontal ±60 degrees


Normalized Vertical off-axis Response. Above the box
Attenuation in dB
Vertical +10 degrees
Vertical +20 degrees
Vertical +30 degrees
Vertical +40 degrees
Vertical +50 degrees
Vertical +60 degrees


Normalized Vertical off-axis Response. Below the box
Attenuation in dB
Vertical -10 degrees
Vertical -20 degrees
Vertical -30 degrees
Vertical -40 degrees
Vertical -50 degrees
Vertical -60 degrees

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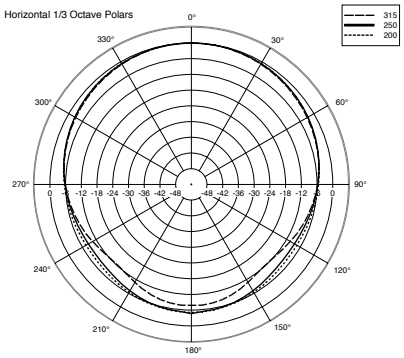
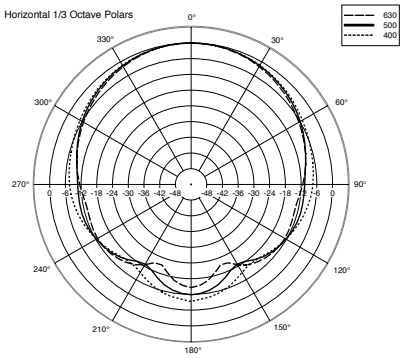
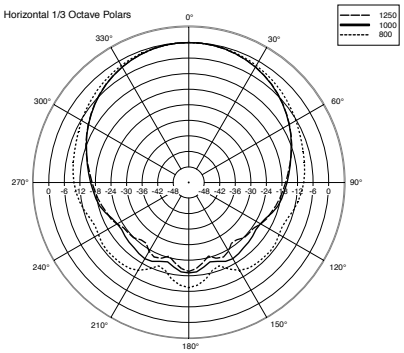
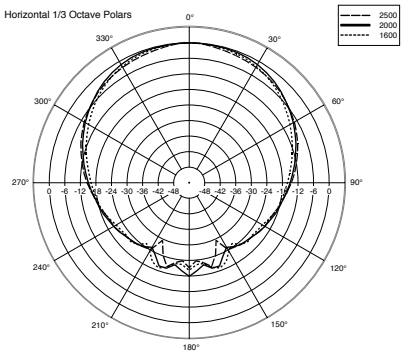
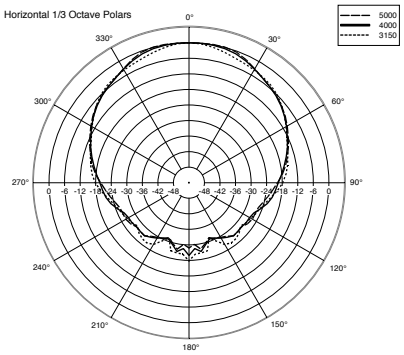
## HORIZONTAL 1/3 POLAR PLOT

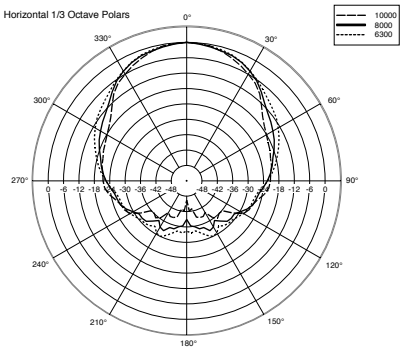


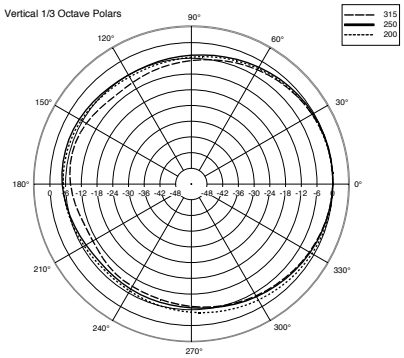



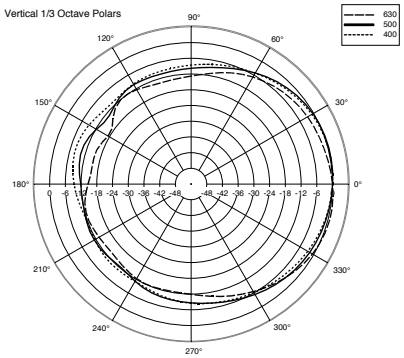



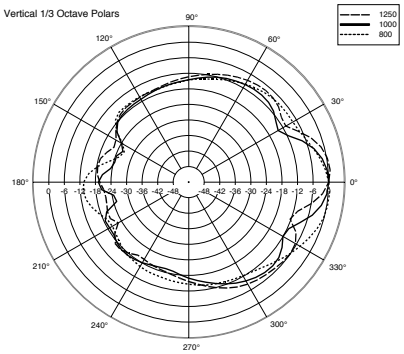



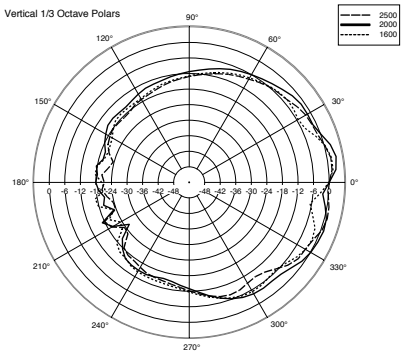



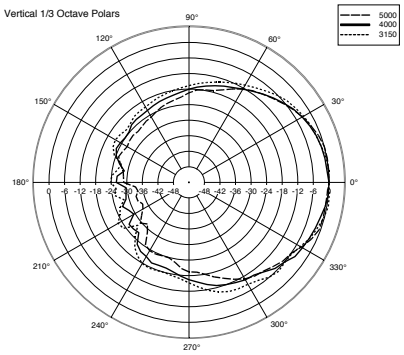

## VERTICAL 1/3 POLAR PLOT

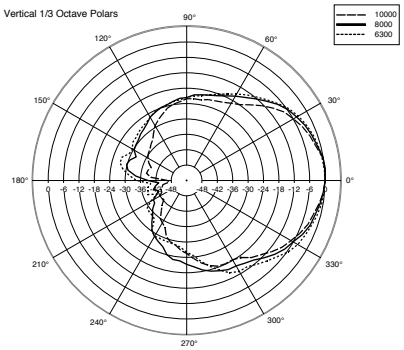


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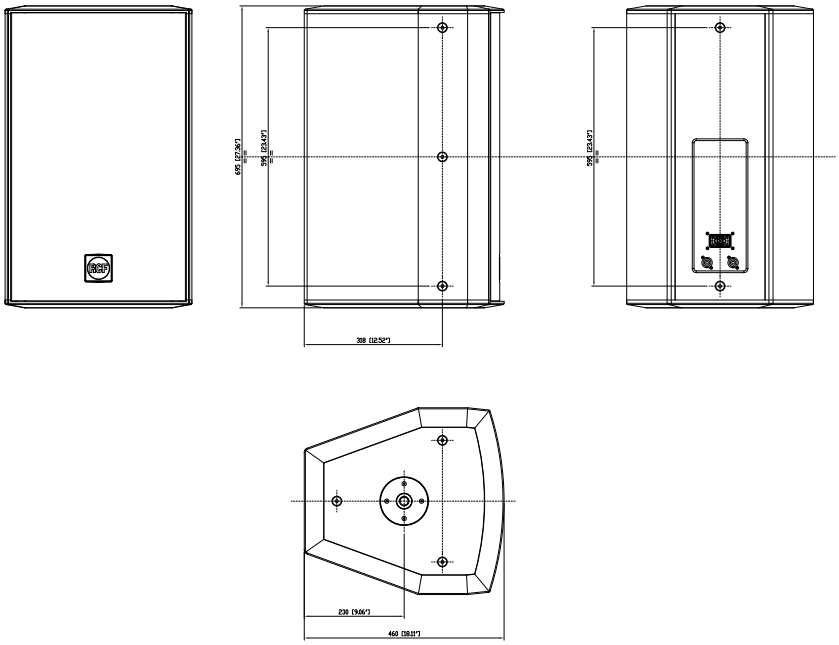
## PART NUMBERS

13000313

## DIMENSIONS (All data are in mm)




## ACCESSORIES

| | |
|---|---|
| AC NC15 H-BR | U bracket for horizontal mounting |
| AC NC15 V-BR | U bracket for vertical mounting |
| AC NC-FB2 | Bracket for suspended mounting with chains |

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