C5215-66

TWO WAY PASSIVE SPEAKER SYSTEM

DESCRIPTION

C5215-66 belongs to RCF ACUSTICA - NEW COMPACT SERIES and is a full range extremely versatile 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).

MAIN APPLICATIONS

- Permanent installations
- Main reinforcement in small and medium spaces
- High-level AV playback
- Cluster configurations
- Live music reinforcement
- Large speech systems
- 60° x 60° horn suitable for longer distance coverage

MAIN FEATURES

- Very high efficiency design
- One 15" high-output RCF PRECISION woofer
- One 1.4" RCF PRECISION compression driver
- 60° x 60° CMD ('Constant Matching Design') constant directivity horn
- 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

SYSTEM

Model:	C5215-66
Part number:	13000312
Frequency response (-10 dB):	48 Hz ÷ 20 kHz
Horizontal coverage angle (-6 dB):	60°
Vertical coverage angle (-6 dB):	60°
Directivity factor (Q):	16
Sensitivity (1 W, 1 m):	101 dB
Max. SPL (peak power, 1 m):	134 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

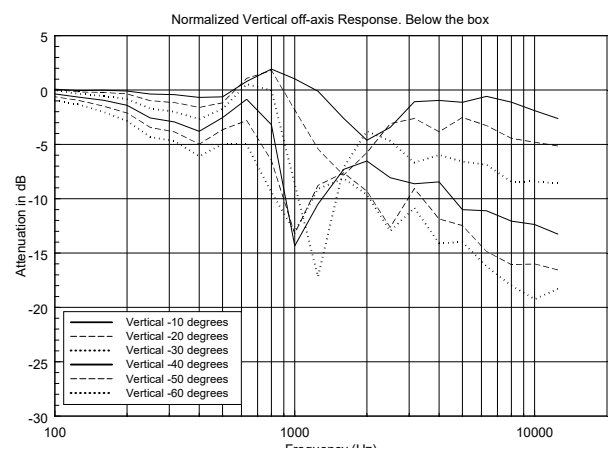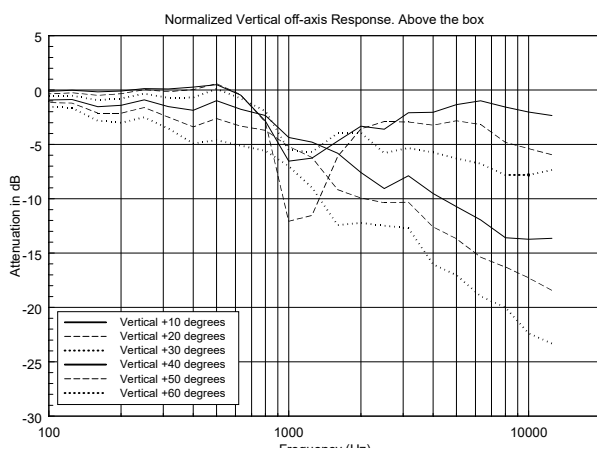|	
Transducer:	15" woofer with 3" voice coil
Impedance:	8 Ω
Power:	400 W (AES), 800 W (peak)
Sensitivity (1 W, 1 m):	99 dB

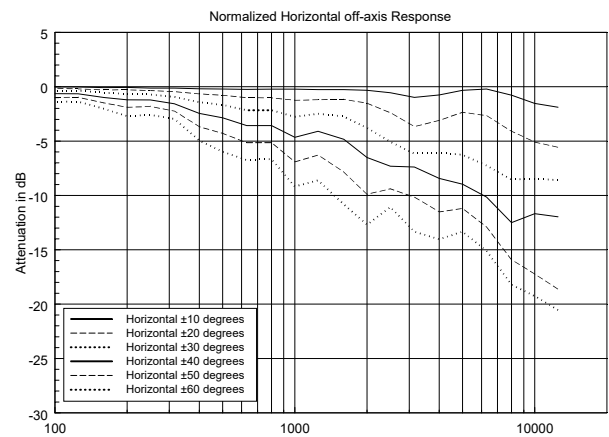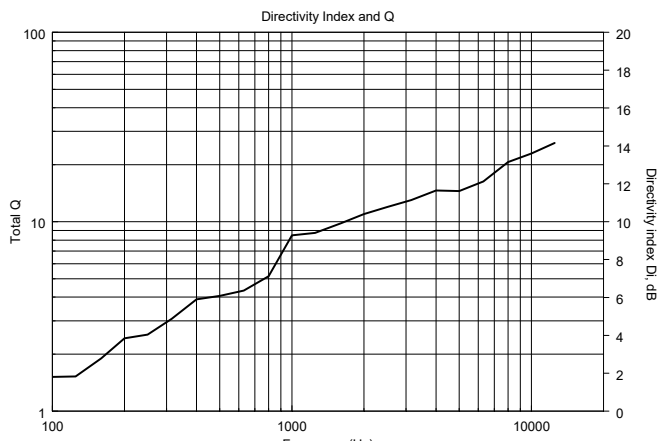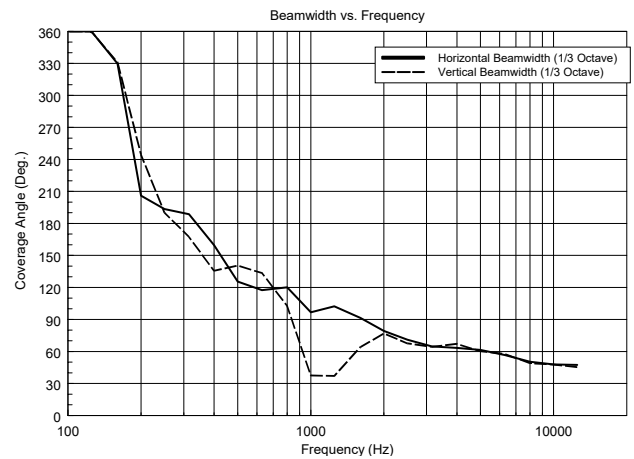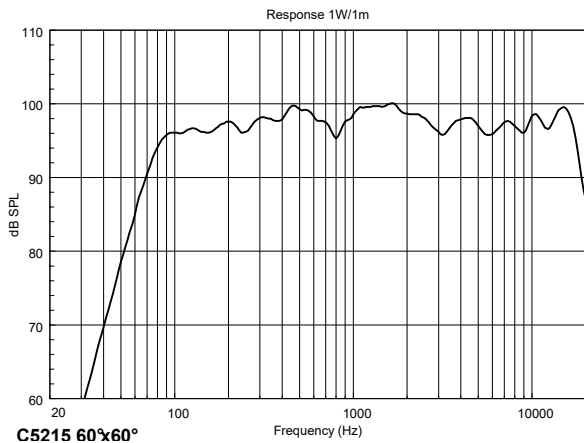#### High frequency range

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

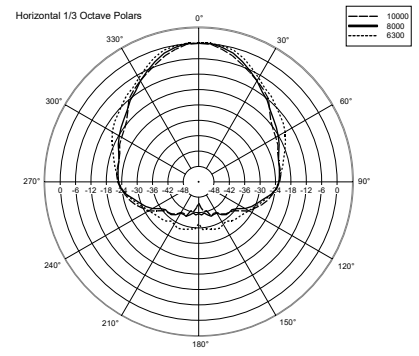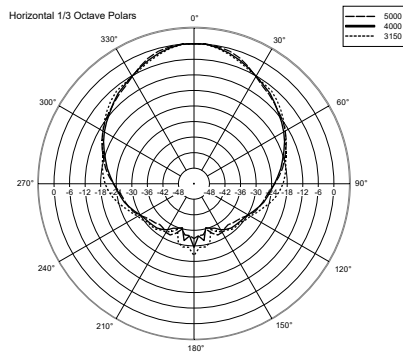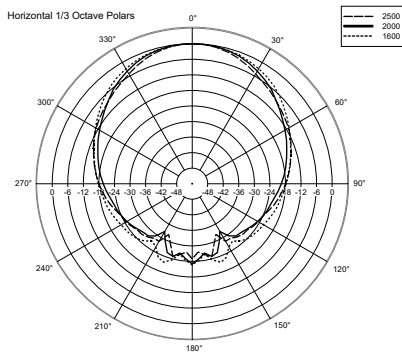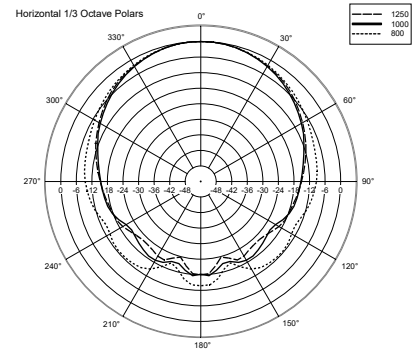|	
Enclosure:	trapezoidal, 20° side angles, 15 mm birch plywood construction
Rigging inserts:	14 x M10, multiplates (top and bottom)
Colour:	black
Grille:	perforated powder-coated steel covered with double layer polyurethane fabric
Input connectors:	2 x SPEAKON® NL4
Dimensions (w, h, d):	16.93", 27.36", 18.11" (430, 695, 460 mm)
Weight:	76.72 lbs (34.8 kg)

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C5215-66

Response 1W/1m

C5215 60°x60°

Beamwidth vs. Frequency

Horizontal Beamwidth (1/3 Octave)
Vertical Beamwidth (1/3 Octave)

Directivity Index and Q

Normalized Horizontal off-axis Response

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

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

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

Horizontal 1/3 Octave Polars — 315 / 250 / 200

Horizontal 1/3 Octave Polars — 630 / 500 / 400

Horizontal 1/3 Octave Polars — 1250 / 1000 / 800

Horizontal 1/3 Octave Polars — 2500 / 2000 / 1600

Horizontal 1/3 Octave Polars — 5000 / 4000 / 3150

Horizontal 1/3 Octave Polars — 10000 / 8000 / 6300

VERTICAL 1/3 POLAR PLOT

Vertical 1/3 Octave Polars — 315 / 250 / 200

Vertical 1/3 Octave Polars — 630 / 500 / 400

Vertical 1/3 Octave Polars — 1250 / 1000 / 800

Vertical 1/3 Octave Polars — 2500 / 2000 / 1600

Vertical 1/3 Octave Polars — 5000 / 4000 / 3150
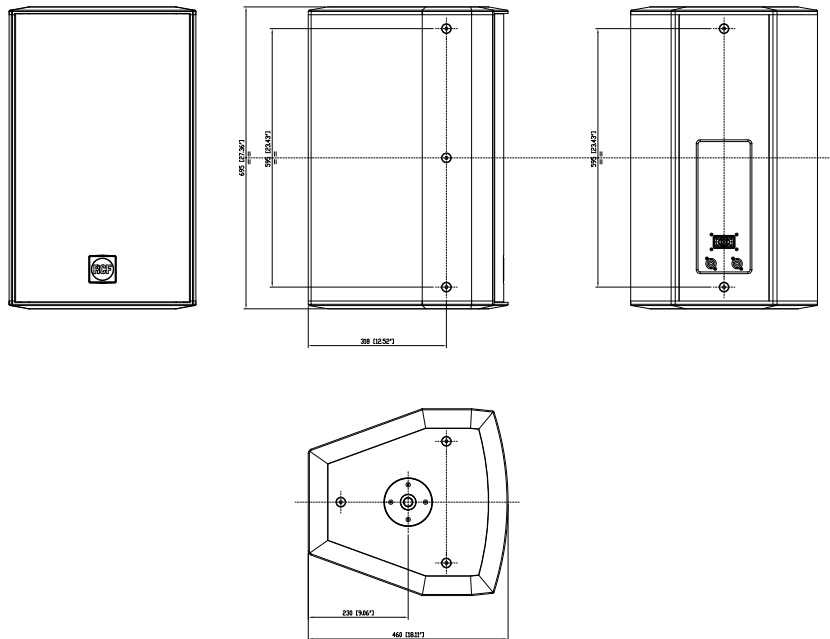
Vertical 1/3 Octave Polars — 10000 / 8000 / 6300

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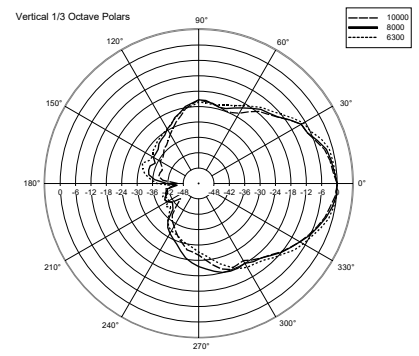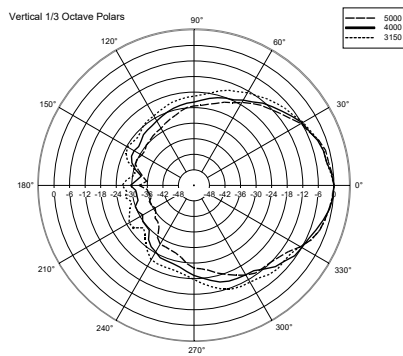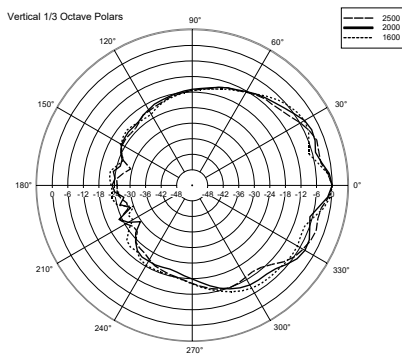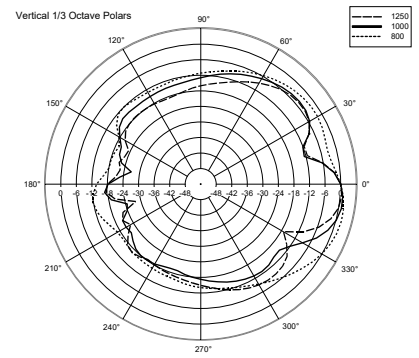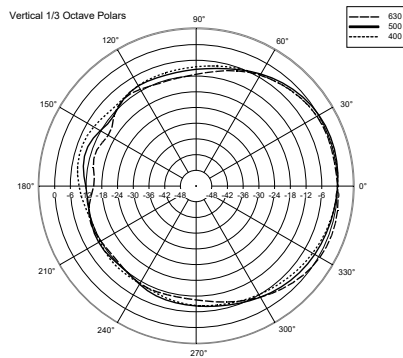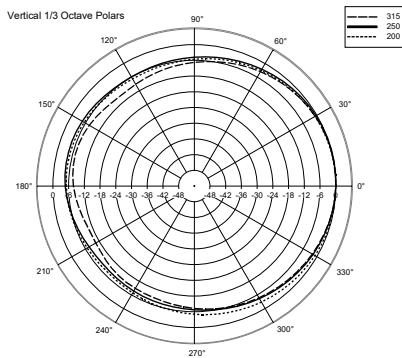
C5215-66

PART NUMBERS

13000312

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

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