



FEATURES

- Constant curvature line array
- Very easy to pole mount, fly and ground stack
- Vertical arrays of up to six units may be constructed
- High output capability and predictable pattern control

DESCRIPTION

The JFL210 compact line array module features a range of EAW's most innovative line array technologies within a mobile, light weight package that's an ideal solution for a multitude of small- and medium-sized applications, including portable and installed A/V as well as musician/DJ systems. Incorporating constant curvature line array design principles, JFL210 modules form easily configured arrays with very predictable coverage that is both horizontally symmetric and consistent from short to long throws.

The JFL210's size, shape and weight are optimized for transport and set-up by one person. Side handles are integrated with the rigging system and are aligned with the enclosure's center of gravity for superior balance and stability. Up to two JFL210s may be mounted on a loudspeaker stand with a 35 mm / 1.38 in diameter pole. Dual-angle, integral pole mount holes allow the bottom enclosure to be aimed 0° or -15°.

The JFL210's ultra-strong rigging system has a 10:1 design factor, which meets or exceeds all standards enforced throughout the world. The rigging is simple to use – enclosures may be easily joined together by one person acting alone. For portable, flown applications the accessory FB121 Fly Bar will suspend up to six JFL210 and allow a wide range of array tilt angles to be readily achieved. The FB121 also doubles as a ground stack base for up to four JFL210s. Alternately, a pair of threaded M10 rigging points are available on the enclosure's top and bottom panels for cost-sensitive permanent install applications.

Users may switch between single- or bi-amp powering modes. An additional HF Shading switch is active in single-amp mode. It optimizes high frequency response for single-box or multi-box arrays, or inserts a correction filter for the high frequency air loss encountered in long throw applications. When the JFL210 is operated in bi-amp mode the HF Shading filters are applied in DSP.

Dual Neutrik® Speakon® STX Series NL4 jacks are provided for system input. The STX Series' all-metal housings are extremely rugged, and provide weather protection to IP54 when mated with a complementary STX Series cable connector. The powering mode and HF Shading switches are recessed and shrouded with a rubber boot for additional weather protection.

While the JFL210 offers excellent performance with nearly any loudspeaker processor, its response can be optimized even more precisely with an EAW UX8800 4x8 digital processor. The UX8800 functions as an excellent overall system manager, processor and controller, while its Guinness Focusing alignment and driver processing algorithms dramatically enhance temporal performance.

Overall construction matches the high standards long applied to EAW portable and touring products. Enclosures are protected by our tough, highly scratch-resistant RoadCoat™ finish and durable, foam-backed steel grilles protect the transducers while hiding them from view.

Six year warranty.

2-WAY FULL-RANGE, 110° × 15°

See *NOTES TABULAR DATA* for details

CONFIGURATION

Subsystem:

| | <i>Transducer</i> | <i>Loading</i> |
|----|---|----------------|
| LF | 2 x 10 in cone | Vented |
| HF | 1 x 1.4 in exit, 3 in voice coil compression driver | Horn-loaded |

Operating Mode:

| | <i>Amplifier Channels</i> | <i>External Signal Processing</i> |
|------------|---------------------------|-----------------------------------|
| Single-amp | LF/HF | High Pass Filter |
| Bi-amp | LF,HF | DSP w/2-way filters |

PERFORMANCE

Operating Range: 65 Hz to 18.5 kHz

Nominal Beamwidth:

| | |
|------|------|
| Horz | 110° |
| Vert | 15° |

Axial Sensitivity (*whole space SPL*):

| | | |
|-------|--------|--------------------|
| LF/HF | 95 dB | 65 Hz to 18.5 kHz |
| LF | 95 dB | 65 Hz to 971 Hz |
| HF | 105 dB | 708 Hz to 18.5 kHz |

Input Impedance (*ohms*):

| | <i>Nominal</i> | <i>Minimum</i> |
|-------|----------------|----------------|
| LF/HF | 8 | 6.5 @ 280 Hz |
| LF | 8 | 10.9 @ 270 Hz |
| HF | 8 | 9.6 @ 4470 Hz |

High Pass Filter: High Pass >=60 Hz, 12 dB/octave Butterworth

Accelerated Life Test:

| | | |
|-------|------|---------------|
| LF/HF | 80 V | 800 W @ 8 ohm |
| LF | 80 V | 800 W @ 8 ohm |
| HF | 35 V | 150 W @ 8 ohm |

Calculated Axial Output Limit (*whole space SPL*):

| | <i>Average</i> | <i>Peak</i> |
|-------|----------------|-------------|
| LF/HF | 124 dB | 130 dB |
| LF | 124 dB | 130 dB |
| HF | 127 dB | 133 dB |

ORDERING DATA

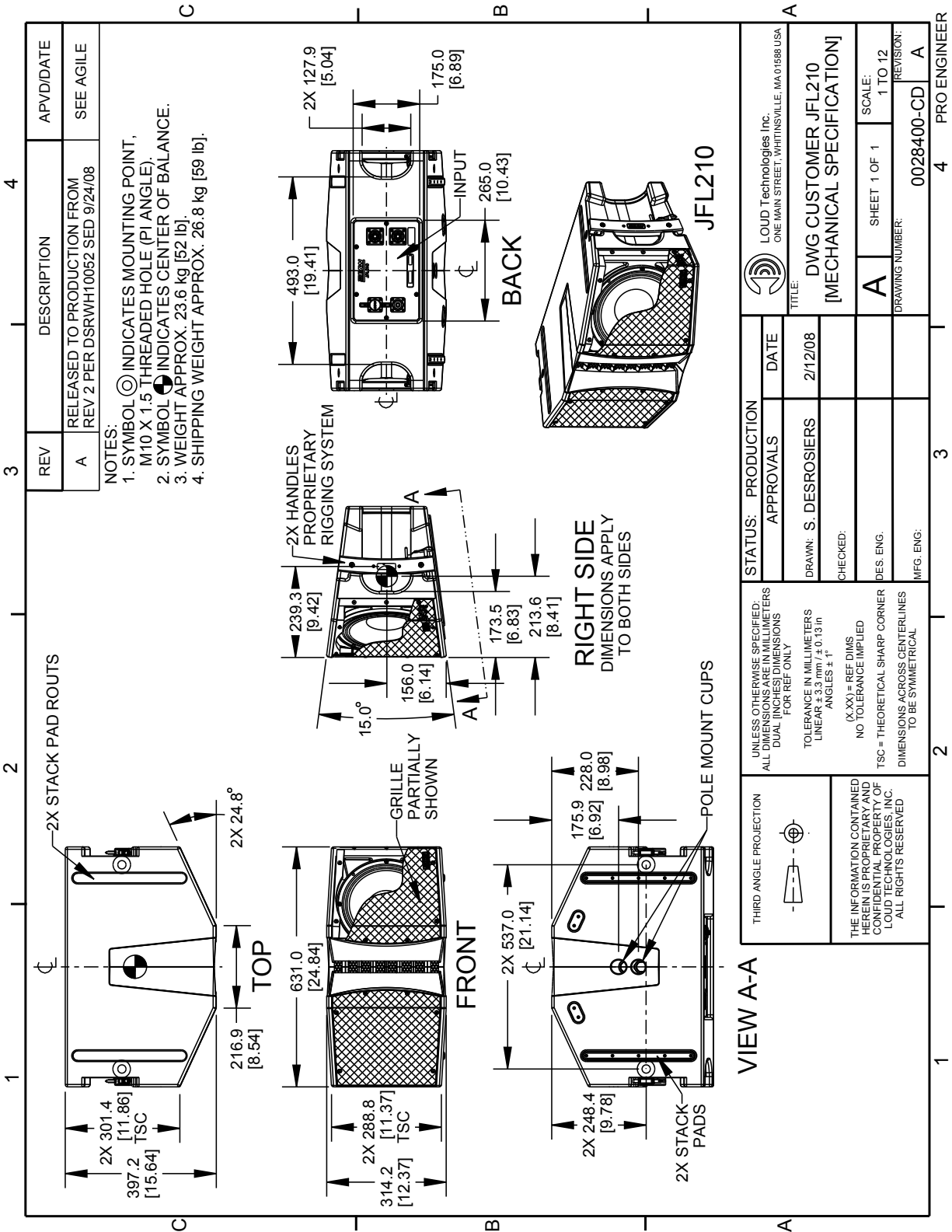
| <i>Description</i> | <i>Part Number</i> |
|--------------------|--------------------|
| EAW JFL210 Black | 0029139-90 |

Optional Accessories

| | |
|-----------------------------------|---------|
| EAW FB121 Fly Bar Black | 0031170 |
| M10 x 1.5 Forged Shoulder Eyebolt | 0029818 |

ENCLOSURE

- Material Baltic birch plywood
- Finish RoadCoat™ wear resistant textured black paint
- Grille Powder-coated perforated steel



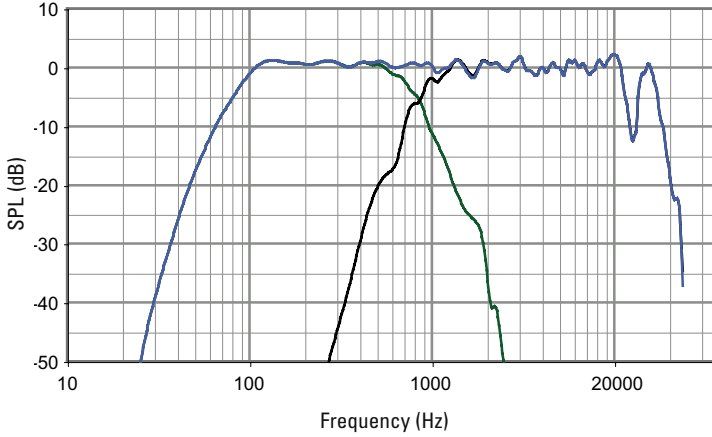
NOTE: This drawing has been reduced. Do not scale.

PERFORMANCE DATA

See *NOTES GRAPHIC DATA* for details

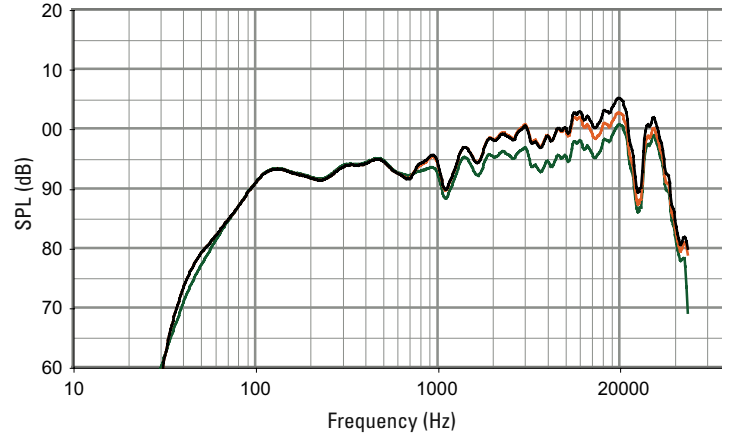
Frequency Response: Processed Bi-amplified

LF = green, HF = black, Complete = blue



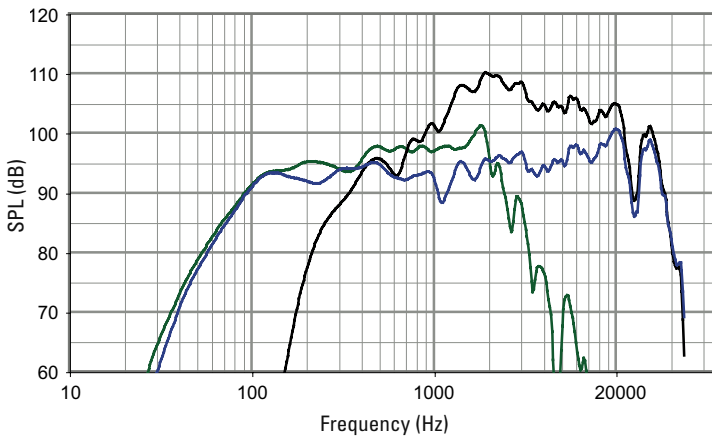
Frequency Response: Single-amplified

Single Box = green, Multi Box = orange, Long Throw = black



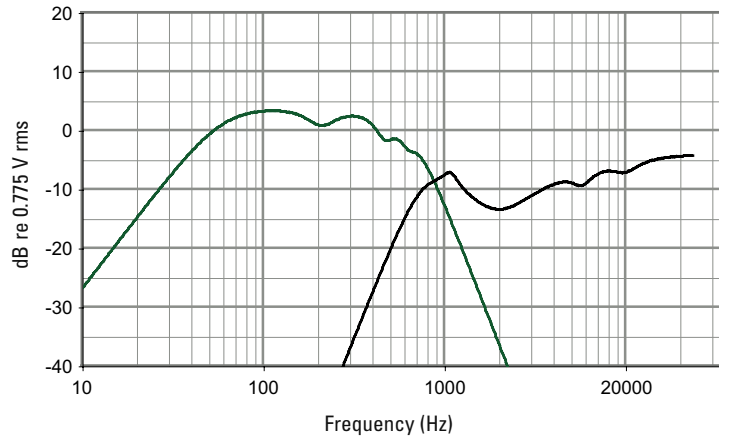
Frequency Response: Unprocessed

LF = green, HF = black, Complete = blue



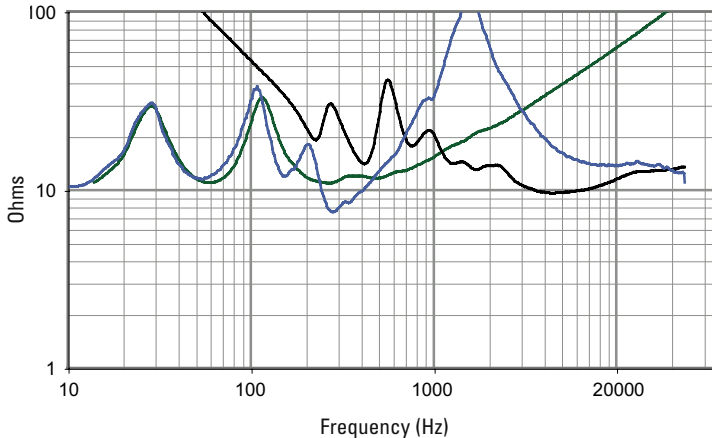
Frequency Response: Digital Signal Processor

LF = green, HF = black



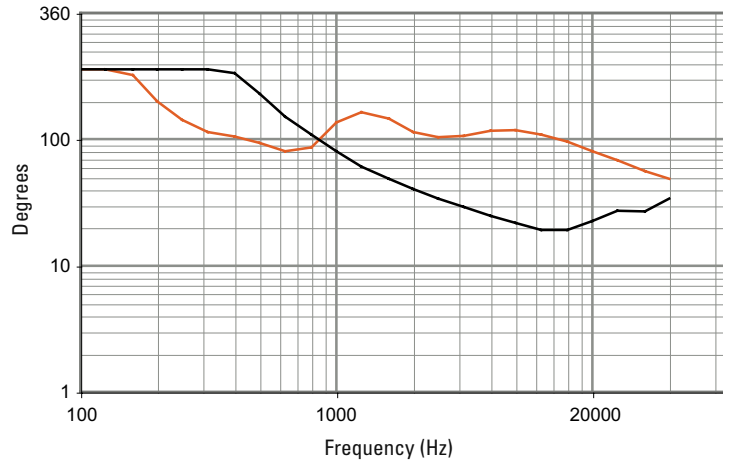
Impedance Magnitude

LF = green, HF = black, Complete = blue



Beamwidth (-6 dB SPL Points)

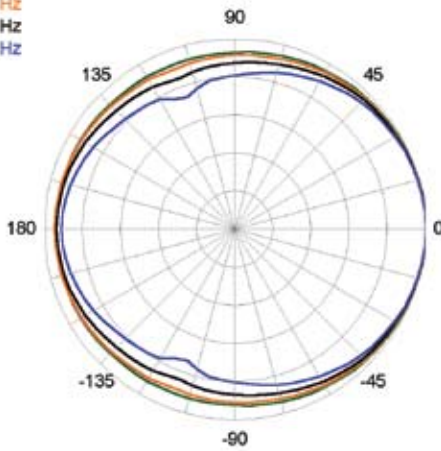
Horizontal = orange Vertical = black



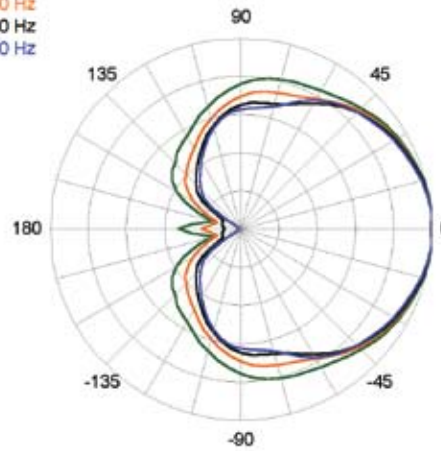
HORIZONTAL POLAR DATA

See *NOTES GRAPHIC DATA* for details

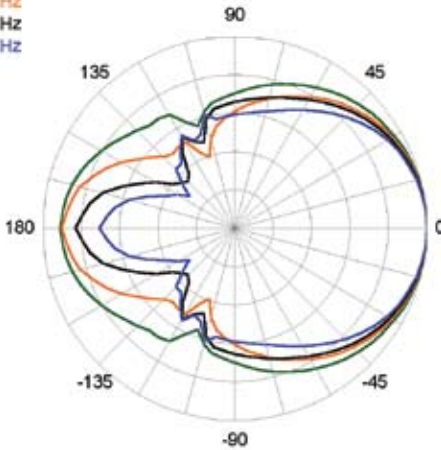
100 Hz
125 Hz
160 Hz
200 Hz



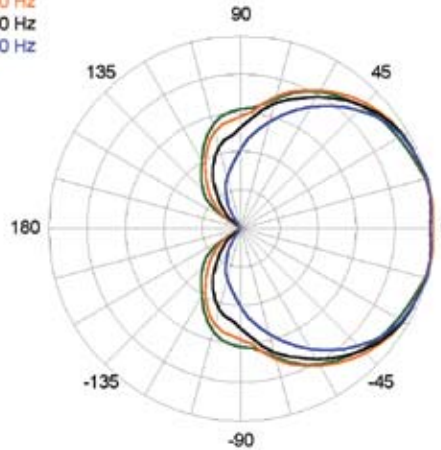
1600 Hz
2000 Hz
2500 Hz
3150 Hz



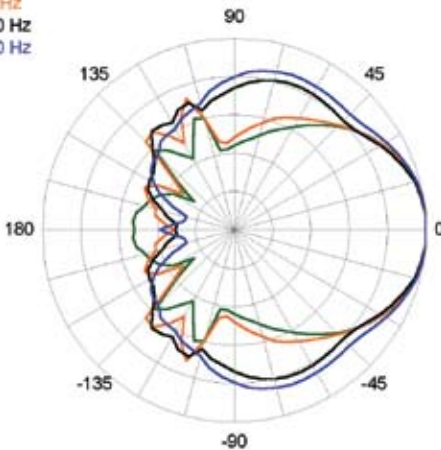
250 Hz
315 Hz
400 Hz
500 Hz



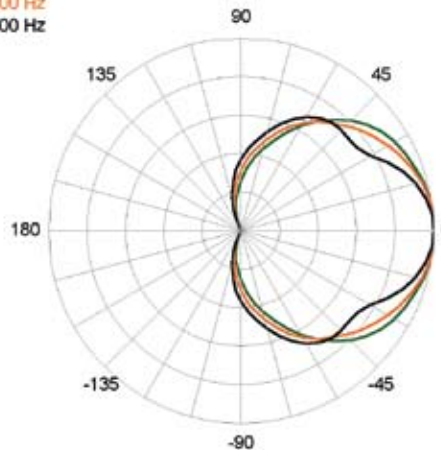
4000 Hz
5000 Hz
6300 Hz
8000 Hz



630 Hz
800 Hz
1000 Hz
1250 Hz

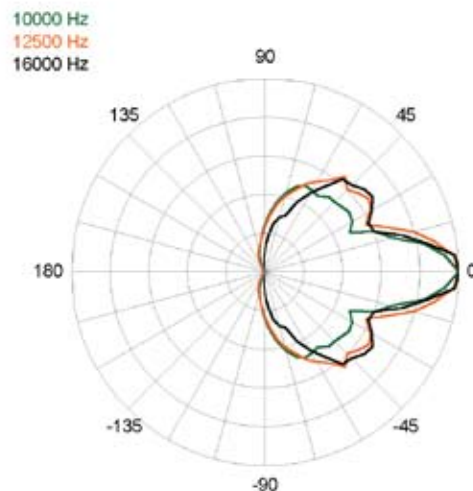
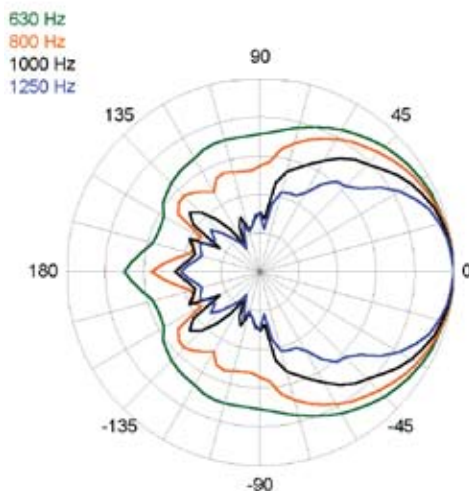
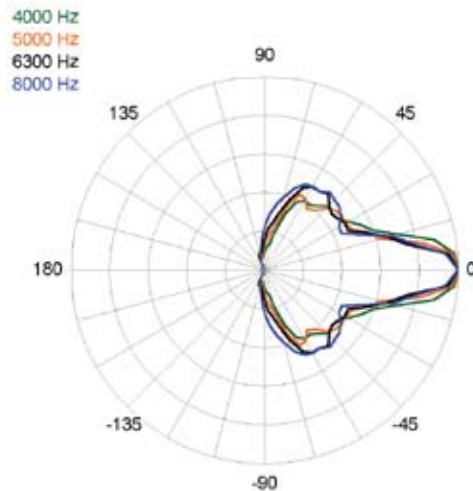
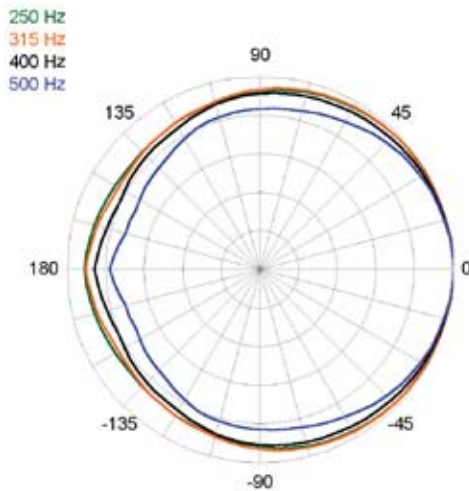
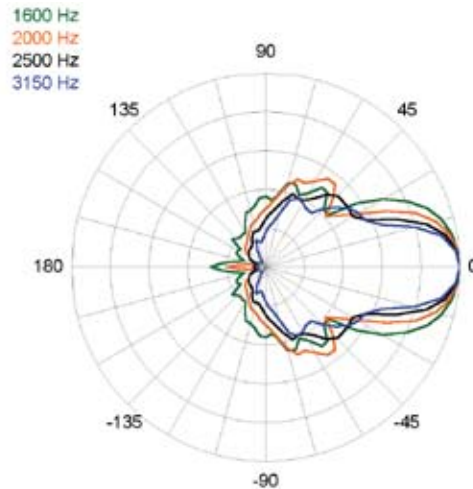
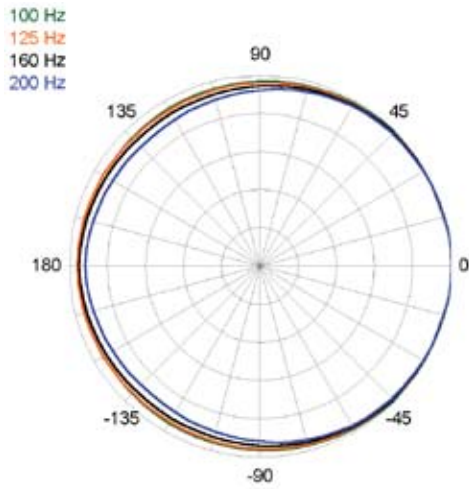


10000 Hz
12500 Hz
16000 Hz



VERTICAL POLAR DATA

See *NOTES GRAPHIC DATA* for details



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