



TECHNICAL SPECIFICATIONS JF260z

- High output two-way loudspeaker systems with 12-in woofer and 1.4-in exit/75mm voice coil HF compression driver on 60° x 45° constant directivity horn
- Beamwidth matching crossover point selection for smooth power response
- Switchable powering: internal passive crossover or biamplified operation
- Handles and pole mount cup for portable applications
- 3/8"-16 threaded mounting points for permanent installation

DESCRIPTION

EAW's JF260z two-way loudspeaker system provides high output, low distortion sound reinforcement for the entire range of pro audio applications.

The newly re-engineered 12-in low frequency cone and 1.4-in exit 75mm voice coil high frequency compression driver provides higher output and lower distortion plus enhanced power handling capabilities for better performance in both portable and permanently installed applications. The new constant directivity HF horn – inspired by the new AS Series systems – provides optimized dispersion of HF information without problematic beaming.

EAW's advanced beamwidth matching crossover selects a crossover point where the HF horn's beamwidth matches that of the woofer. The result is more even off-axis frequency response (power response) for more complete coverage.

The JF260z offers a switchable powering mode: passive operation using the internal crossover filter network or biamplified operation requiring the use of pre-configured MX Series processor settings.

APPLICATION

The JF260z was designed to support the widest possible range of pro audio applications. While ideal for distributed systems, the 30° per side trapezoid angles match the 60° horizontal coverage pattern allowing the creation of tight packed clusters.

The pole mount cup and balance-optimized handles allow for quick and easy load-in of portable uses. Its high output capabilities let it act as a main system for smaller concert or portable A/V events or even provide front or side fill for concert touring applications.

The comprehensive system of integral 3/8"-16 threaded mounting points permit safe, load-rated suspension in permanent installations.



DESCRIPTIVE DATA

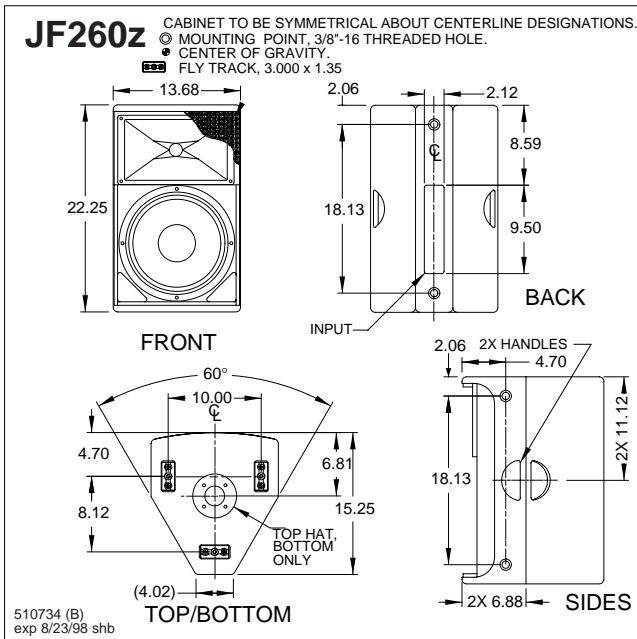
Configuration	2-way, Full Range	
Powering	Switchable: Passive (LF/HF crossover) or Biamplified	
LF Subsystem	1x 12-in, Vented	
HF Subsystem	1x 1.4-in Exit/75mm Voice Coil Compression Driver on CD Horn	
Coverage Angles (h° x v°)	60 x 45	
Cabinet Type (shape)	Trapezoidal	
Enclosure Materials	Baltic Birch Plywood	
Finish	Black Polyurethane	
Connectors	2x Neutrik NL4 Speakon	
Suspension Hardware	(6) 3/8"-16 Threaded Mounting/Suspension Points (2 each Back and Sides), (6) 3 Position Flytrack (3 each Top and Bottom), Stand Mount Cup (Bottom)	
Grill	Powder Coated Perforated Steel, Foam Backed	
Controls (switches, knobs)	Powering Mode Switch	
Dimensions	inches	millimeters
Height	22.25	565
Width (Front)	13.68	347
Width (Rear)	4.02	102
Depth (Max)	15.25	387
Trapezoid Angle	30 degrees per side	
Weights	pounds	kilograms
Net Weight	67	30.5
Shipping Weight	72	32.8





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DIMENSIONAL DRAWING



SERVICE ITEMS

LF: Complete Cone Driver:	EAW Part No. 804090
HF: Complete Compression Driver/Tweeter:	EAW Part No. 803045
LF: Recone Assembly:	EAW Part No. 460064
HF: Diaphragm Assembly:	EAW Part No. 806049
Filter/Crossover Network: Complete Assembly:	EAW Part No. 225418

NOMINAL DATA

Frequency Response (1 Watt @ 1m, MX200i Processing)	
±3 dB	67 Hz to 18 kHz
-10 dB	55 Hz
Axial Sensitivity (dB SPL, 1 Watt @ 1m)	
Full Range	97
LF	97
HF	105
Impedance (Ohms)	
Full Range	8
LF	8
HF	16
Power Handling, AES Standard (Watts)	
Full Range	500
LF	500
HF	200

Calculated Maximum Output (dB SPL)

Full Range Peak	130.0
LF Peak	130.0
HF Peak	134.0
Full Range Long Term	124.0
LF Long Term	124.0
HF Long Term	128.0

ARCHITECTURAL SPECIFICATIONS

The two-way full range loudspeaker systems shall incorporate a 12-in LF transducers and a 1.4-in exit/75mm voice coil compression driver HF transducer.

The LF driver shall be mounted in a vented enclosure tuned for optimum low frequency response. The HF driver shall be loaded on a constant directivity horn with a nominal coverage pattern of 60° (h) x 45° (v).

A switch shall be provided allowing the user to select between biamplified or full range passive powering modes. In full range passive mode, an internal passive filter network shall provide fourth order acoustical crossover and system equalization between the low and high frequency sections.

System frequency response shall vary no more than ±3 dB from 67 Hz to 18 kHz measured on axis. In full range mode, the system shall produce a Sound Pressure Level (SPL) of 97 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 130.0 dB SPL on axis at 1 meter. In full range mode, the system shall handle 500 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 Ohms.

In biamplified mode, the low frequency section shall produce a Sound Pressure Level (SPL) of 96 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 130.0 dB SPL on axis at 1 meter, and the high frequency section shall produce a Sound Pressure Level (SPL) of 105 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 134.0 dB SPL on axis at 1 meter. In biamplified mode, the low frequency section shall handle 500 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 Ohms and the high frequency section shall handle 200 Watts of amplifier power and shall have a nominal impedance of 16 Ohms.

The loudspeaker enclosure shall be trapezoidal in shape. It shall be constructed of 15mm thickness void-free cross-grain-laminated Baltic birch plywood and shall employ extensive internal bracing. It shall be finished in black catalyzed polyurethane. Input connectors shall be dual Neutrik NL4. A total of 6x 3/8"-16 threaded mounting/suspension points (2 each sides and back) shall be provided as well as 6x 3-position flytracks (3 each top and bottom). A stand mount cup shall be provided on the bottom of the enclosure. The front of the loudspeaker shall be covered with a vinyl coated perforated steel grill.

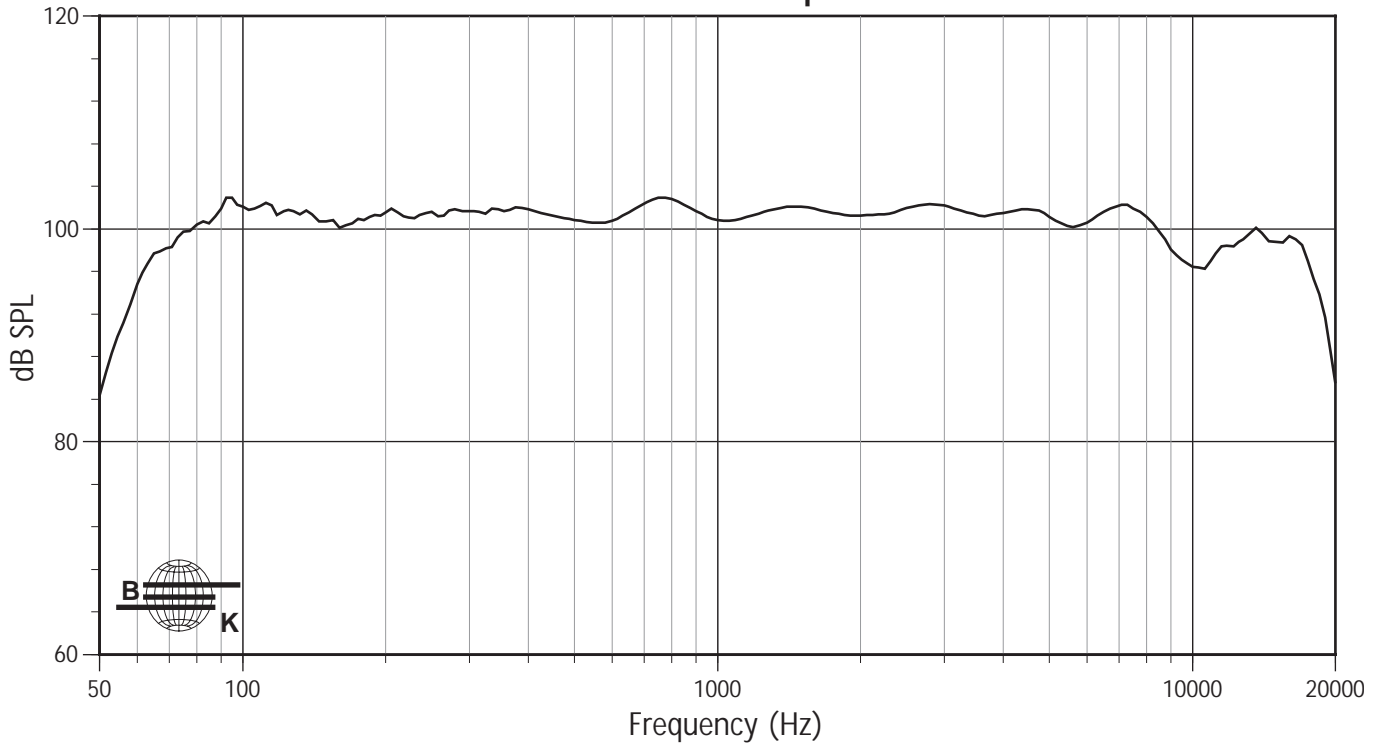
The 2-way full range loudspeaker shall be the EAW model JF260z.



PERFORMANCE SPECIFICATIONS JF260Z

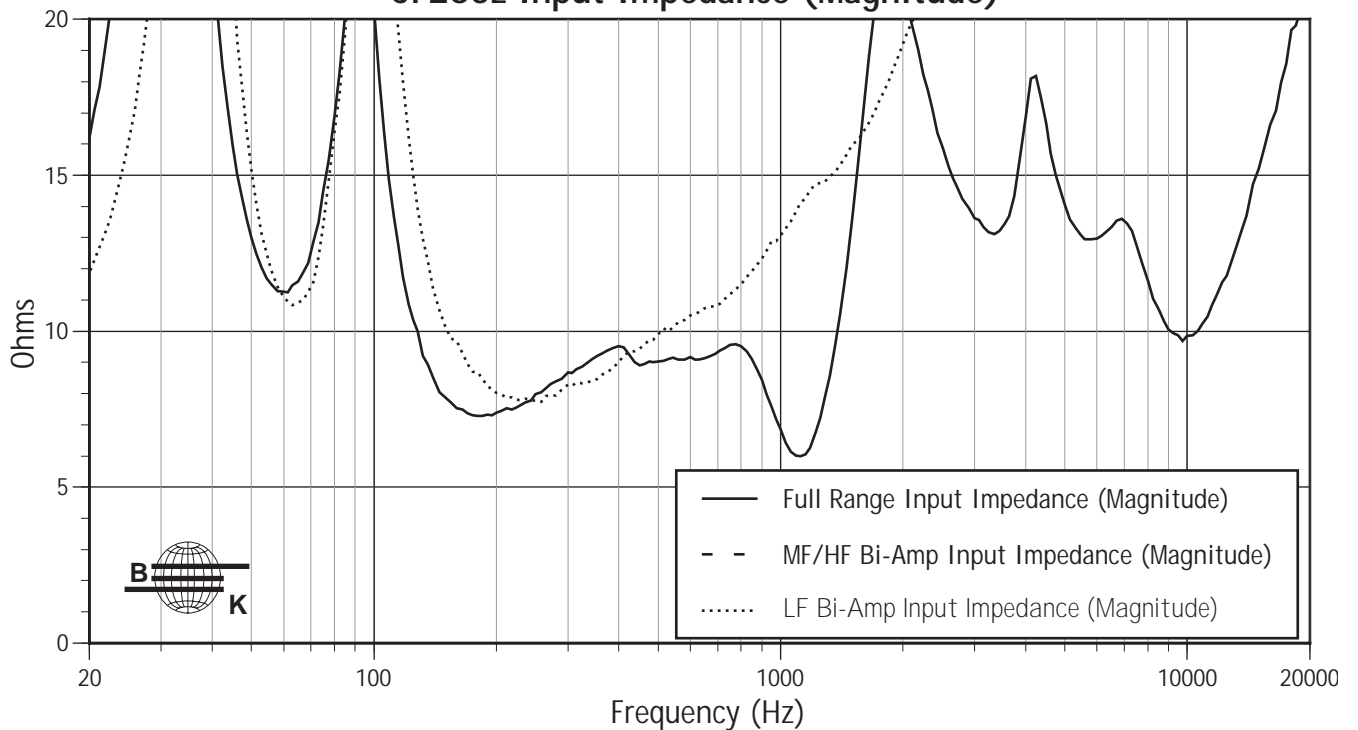
FREQUENCY RESPONSE

JF260z Axial Response



INPUT IMPEDANCE

JF260z Input Impedance (Magnitude)

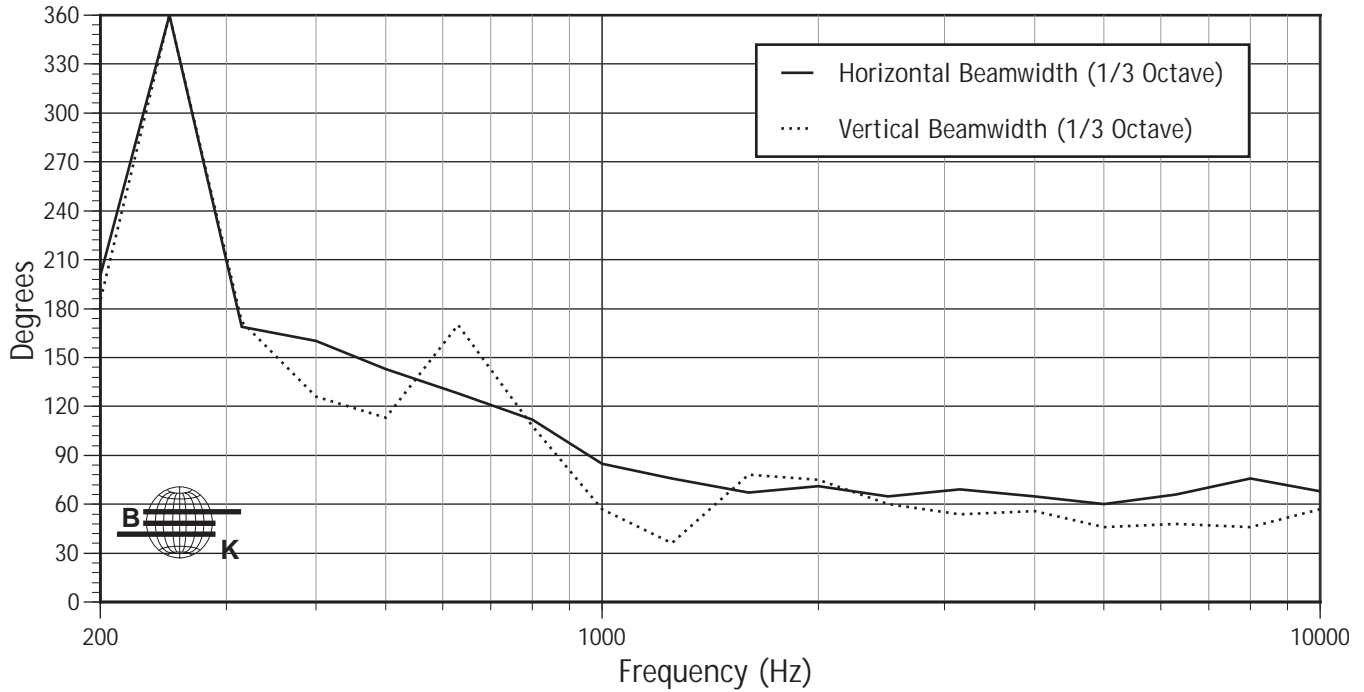




PERFORMANCE SPECIFICATIONS JF260Z

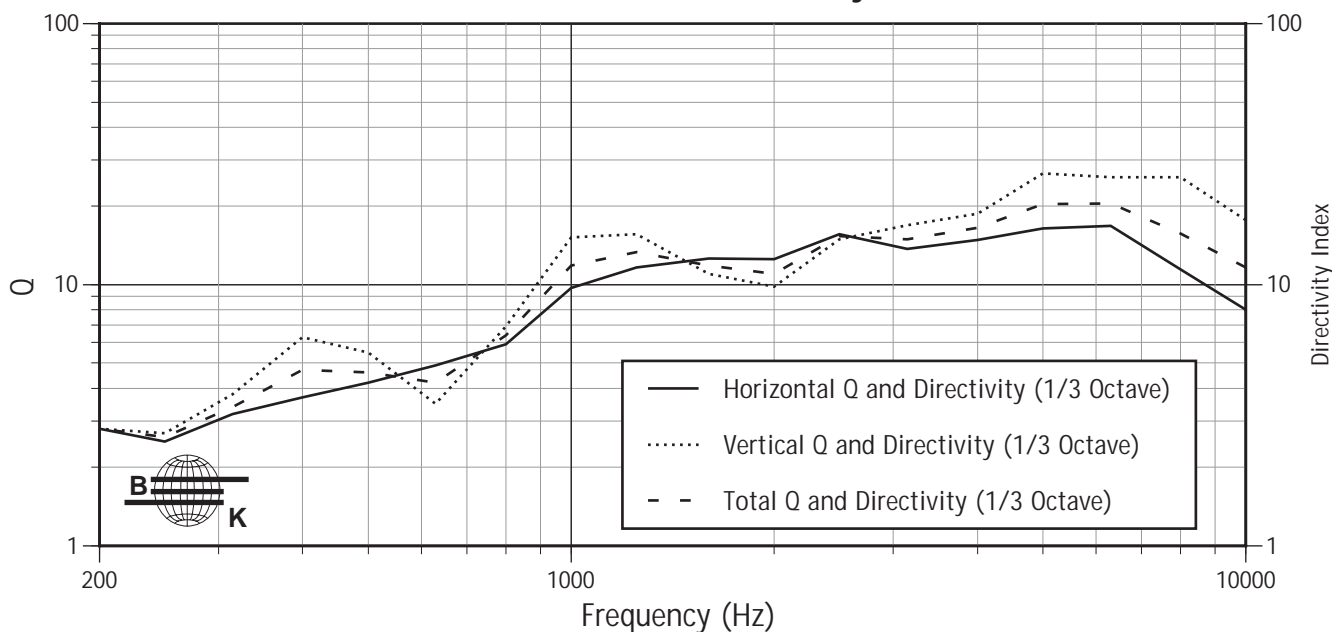
BEAMWIDTH

JF260z Beamwidth vs Frequency



Q & DIRECTIVITY INDEX (DI)

JF260z Q and Directivity

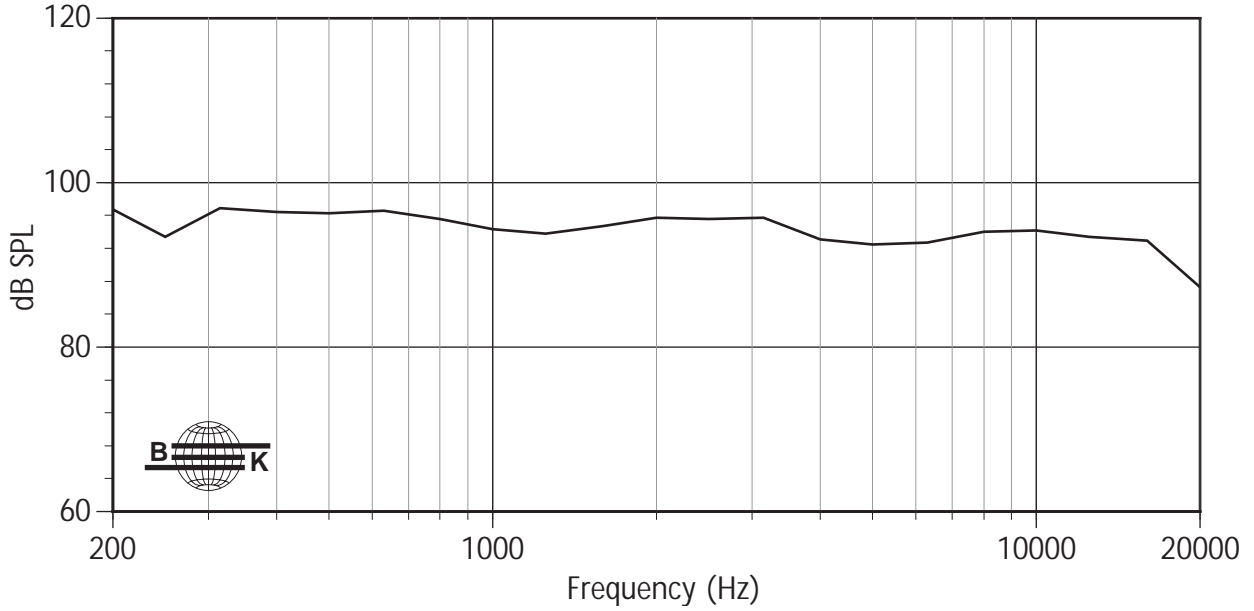




PERFORMANCE SPECIFICATIONS JF260Z

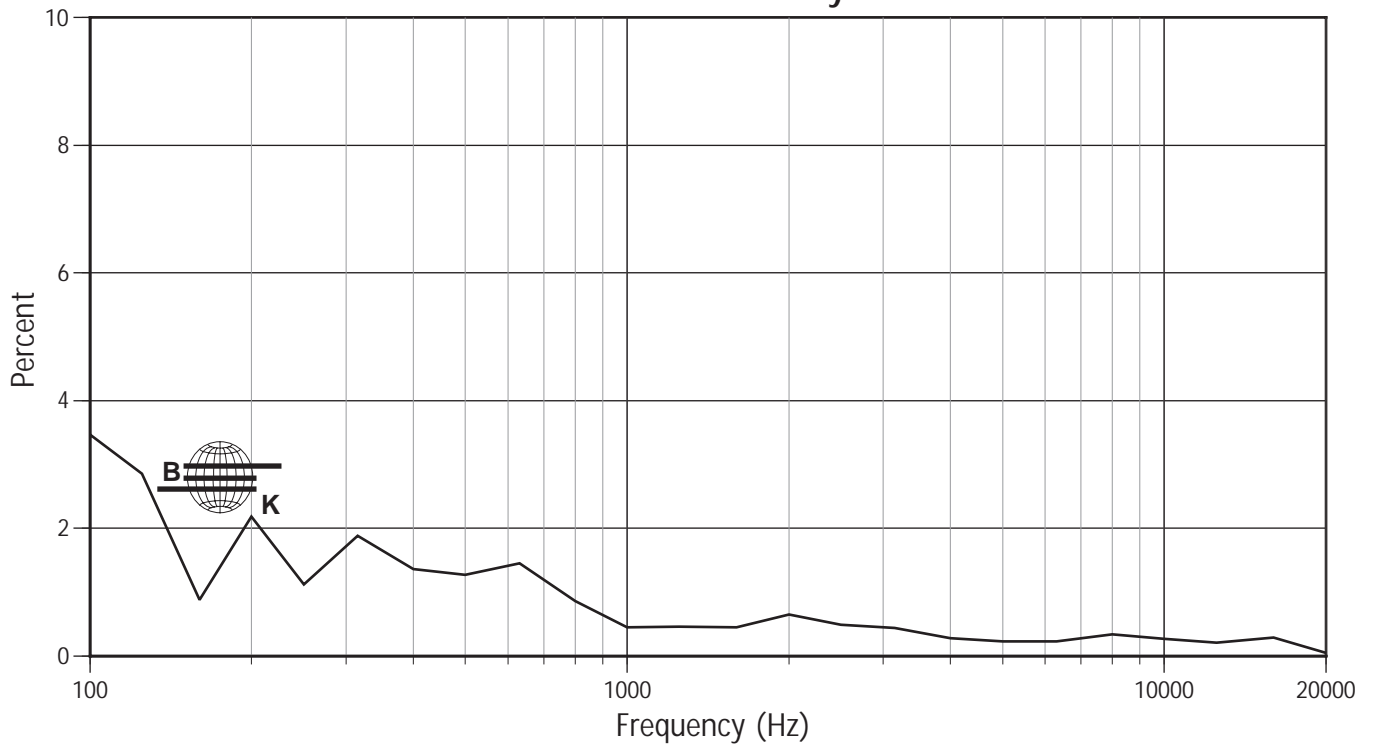
DELIMITED POWER RESPONSE

JF260z Beamwidth Delimited Power Response



EFFICIENCY

JF260z Efficiency





PERFORMANCE SPECIFICATIONS JF260Z

Q & DIRECTIVITY & BEAMWIDTH BY FREQUENCY

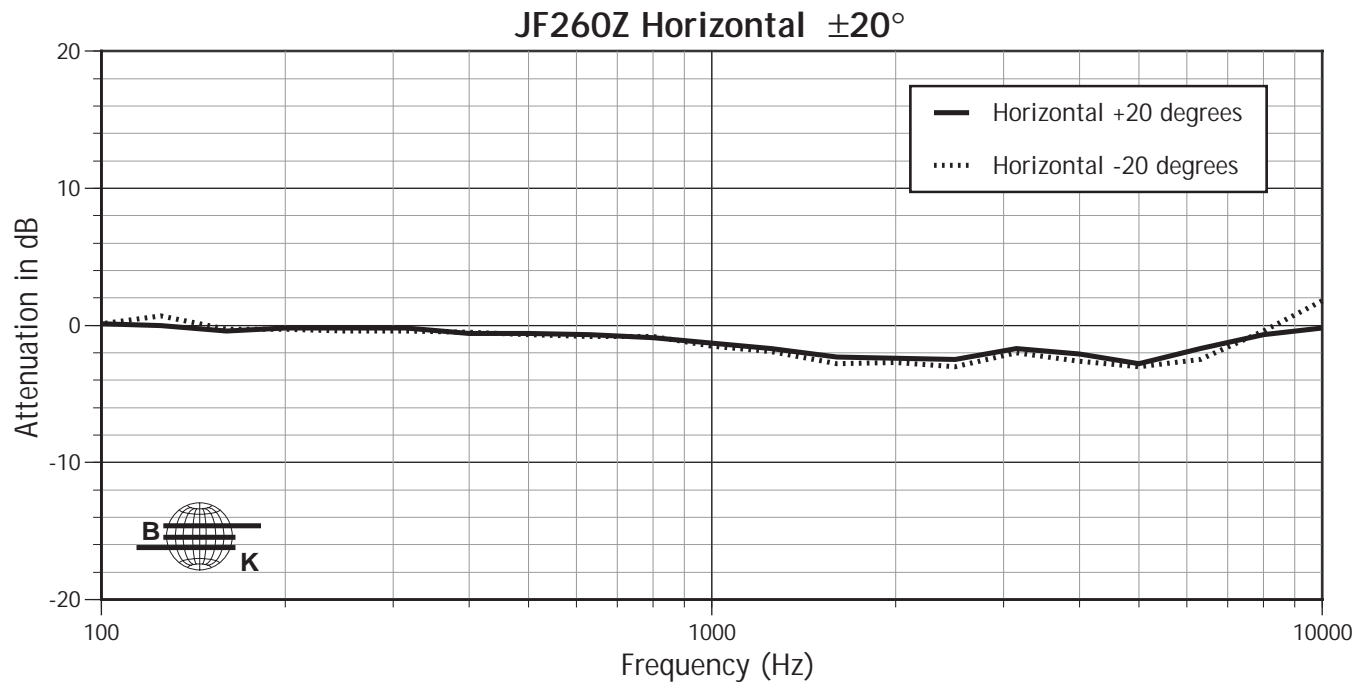
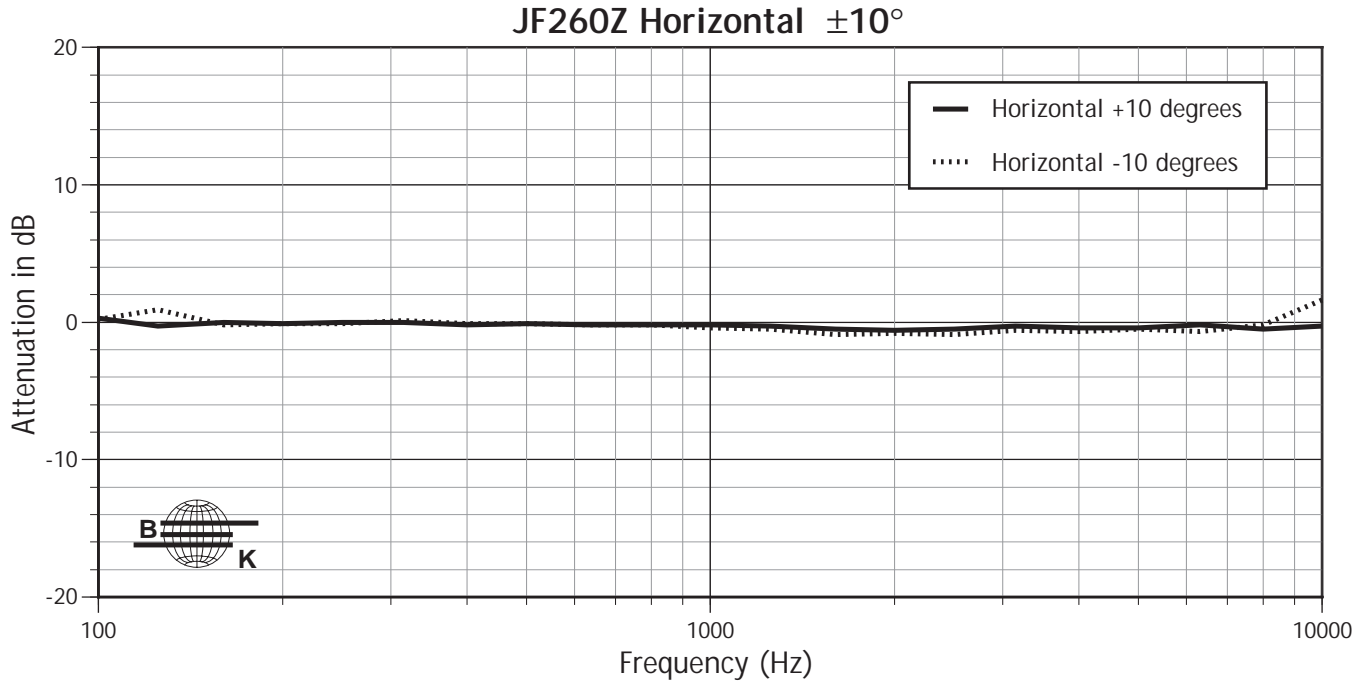
Frequency	Hor Beamwidth	Ver Beamwidth	Hor Q & Dir	Ver Q & Dir	Tot Q & Dir
100	360	360	1.5	1.4	1.5
125	360	360	1.1	1	1.1
160	360	360	2	2	2
200	200	185	2.8	2.8	2.8
250	360	360	2.5	2.7	2.6
315	169	172	3.2	3.8	3.4
400	160	126	3.7	6.3	4.7
500	143	113	4.2	5.5	4.6
630	128	170	4.9	3.5	4.2
800	112	108	5.9	6.9	6.4
1000	85	57	9.7	15.2	11.8
1250	76	36	11.6	15.6	13.3
1600	67	78	12.6	11	11.8
2000	71	75	12.5	9.8	11
2500	65	60	15.6	14.9	15.3
3150	69	54	13.7	16.9	14.9
4000	65	56	14.8	18.7	16.5
5000	60	46	16.4	26.6	20.3
6300	66	48	16.8	25.7	20.4
8000	76	46	11.4	25.8	15.7
10000	68	57	8	17.7	11.6
12500	63	39	16.5	41	23.5
16000	60	36	11.8	48.6	19
20000	52	36	23.4	41	29.6



PERFORMANCE SPECIFICATIONS JF260Z

HORIZONTAL OFF-AXIS RESPONSE

On-axis response normalized to 0 dB.



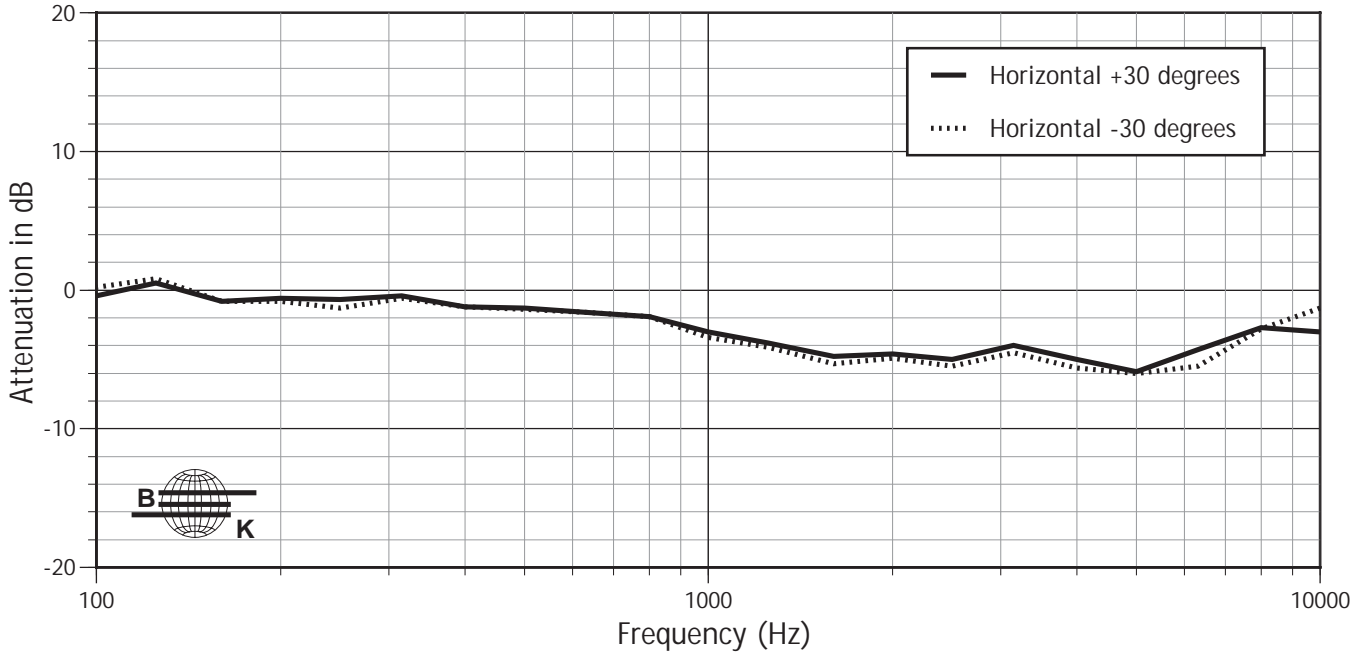


PERFORMANCE SPECIFICATIONS JF260Z

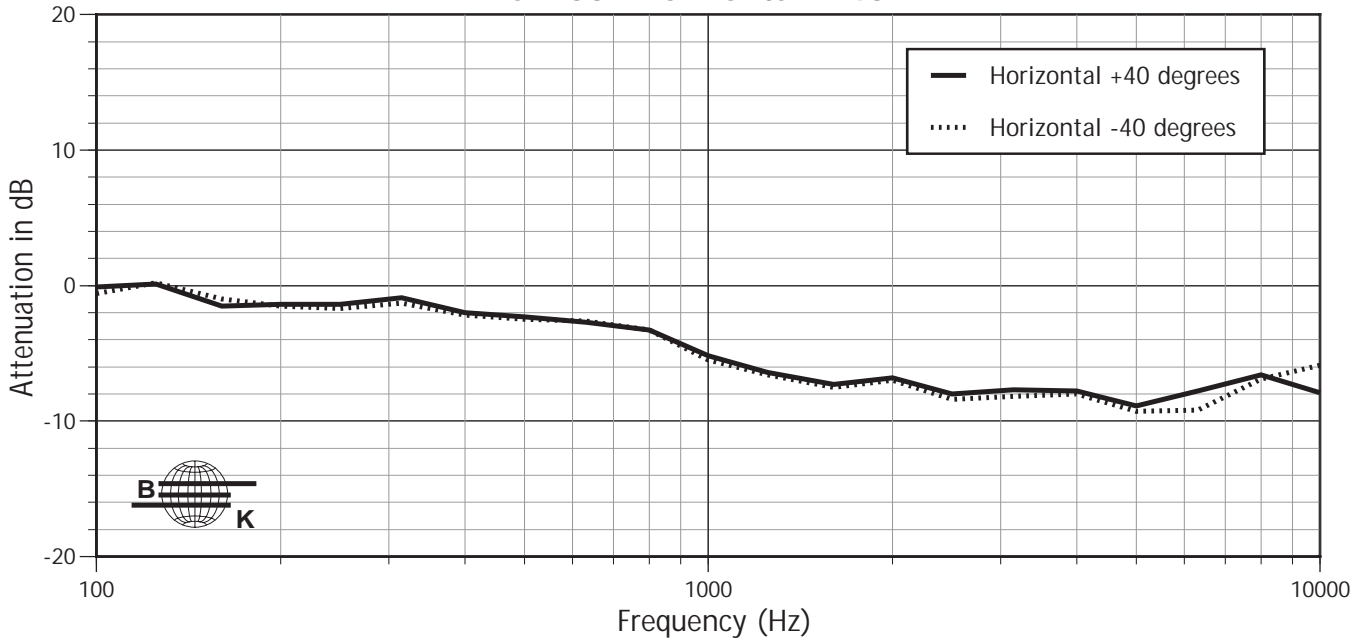
VERTICAL OFF-AXIS RESPONSE

On-axis response normalized to 0 dB.

JF260Z Horizontal $\pm 30^\circ$



JF260Z Horizontal $\pm 40^\circ$



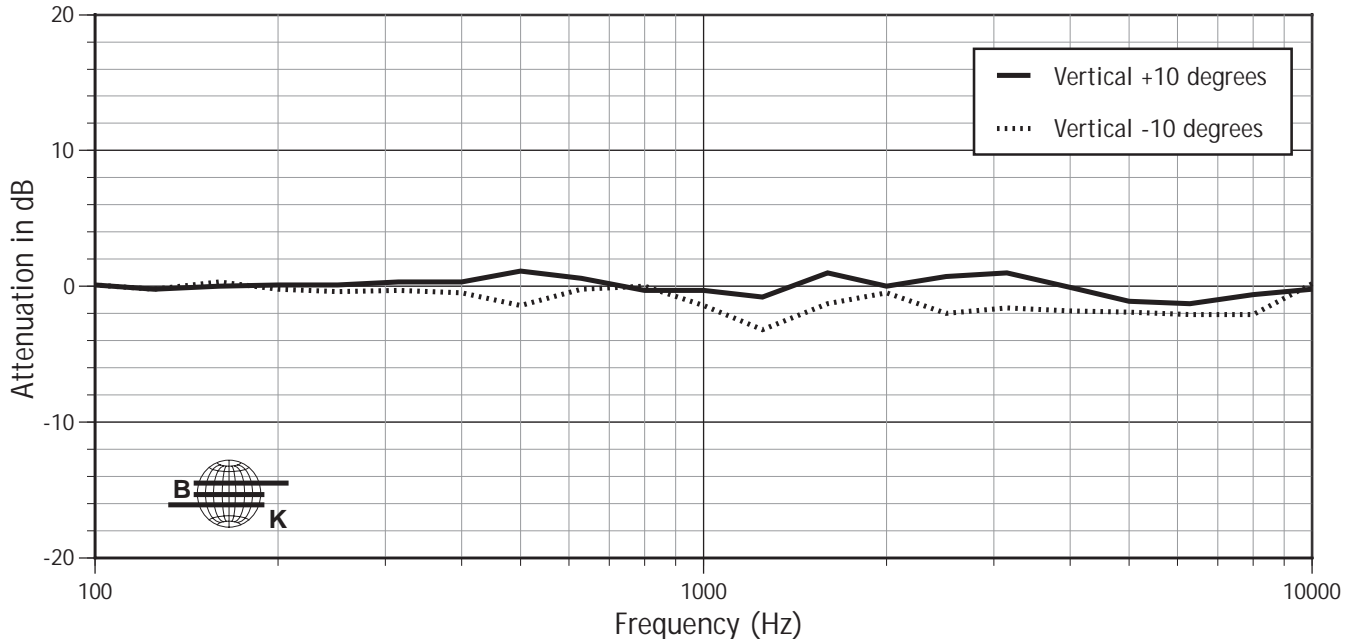


PERFORMANCE SPECIFICATIONS JF260Z

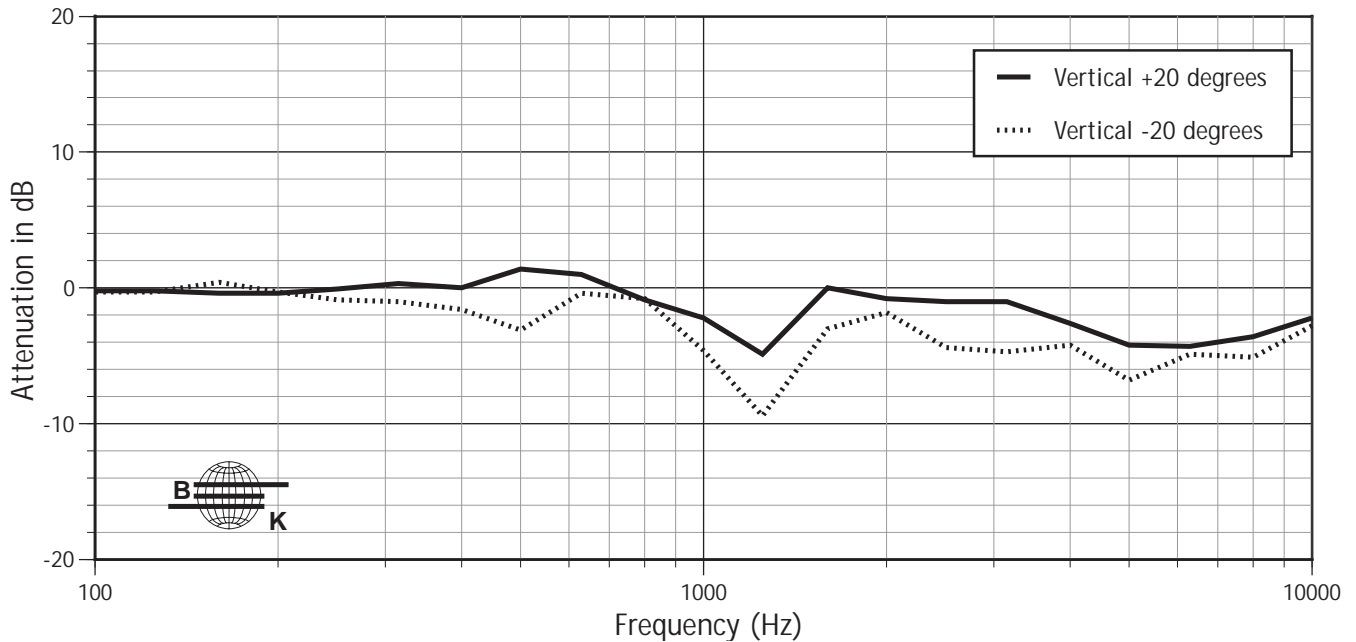
VERTICAL OFF-AXIS RESPONSE

On-axis response normalized to 0 dB.

JF260Z Vertical $\pm 10^\circ$



JF260Z Vertical $\pm 20^\circ$



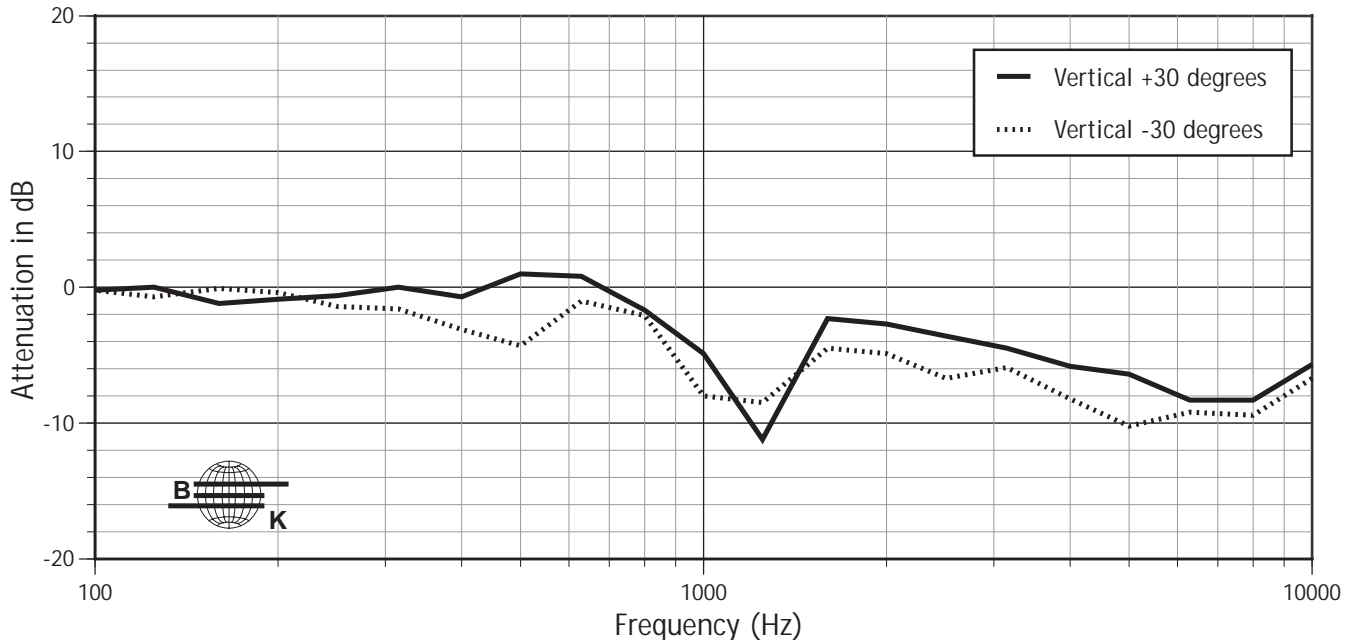


PERFORMANCE SPECIFICATIONS JF260Z

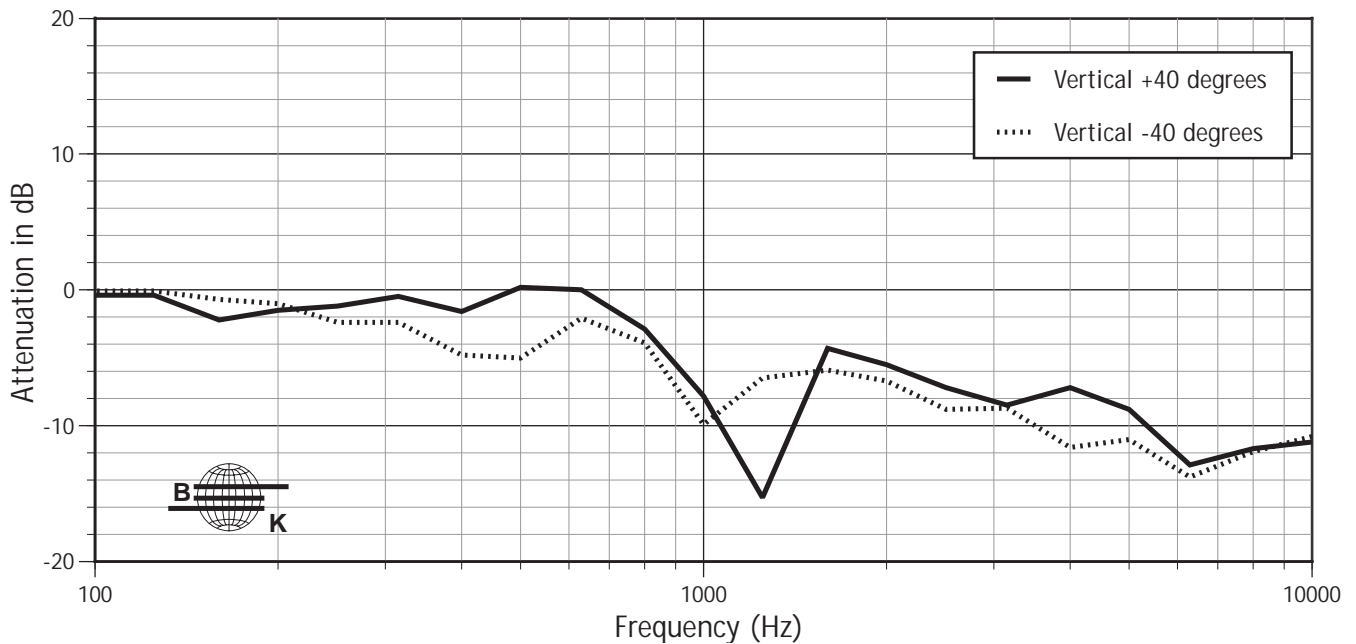
VERTICAL OFF-AXIS RESPONSE

On-axis response normalized to 0 dB.

JF260Z Vertical $\pm 30^\circ$

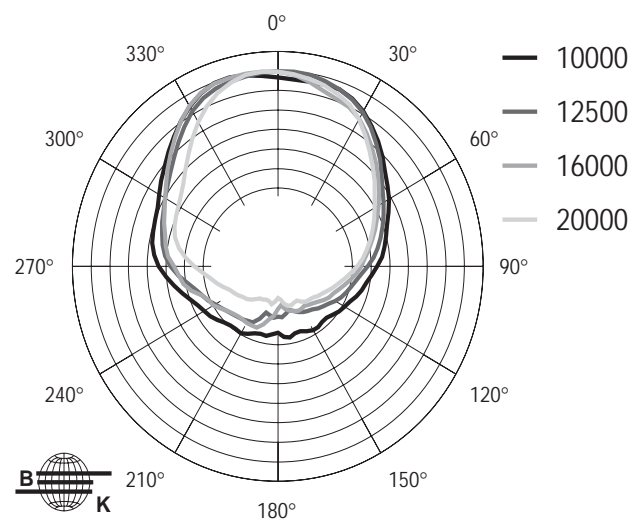
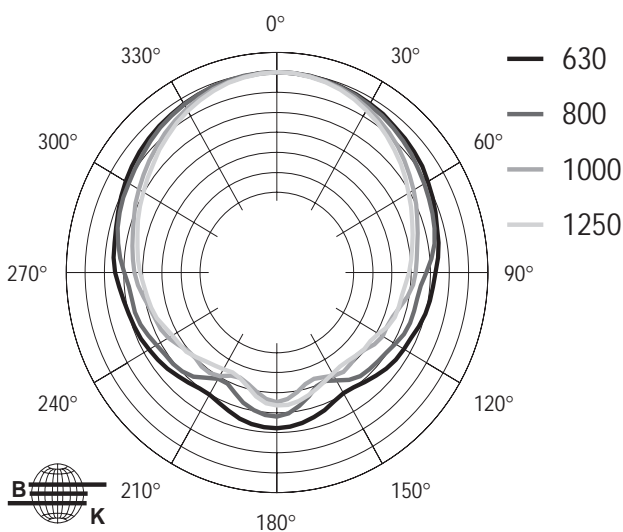
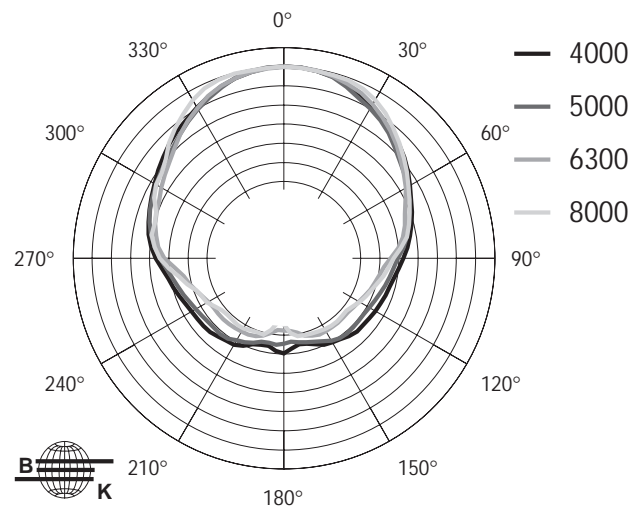
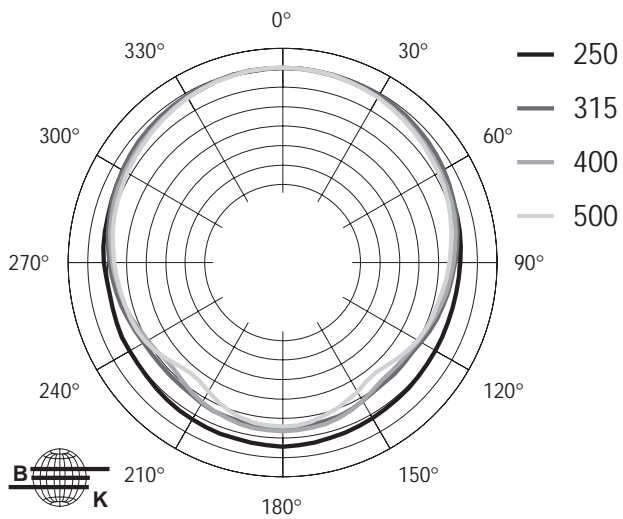
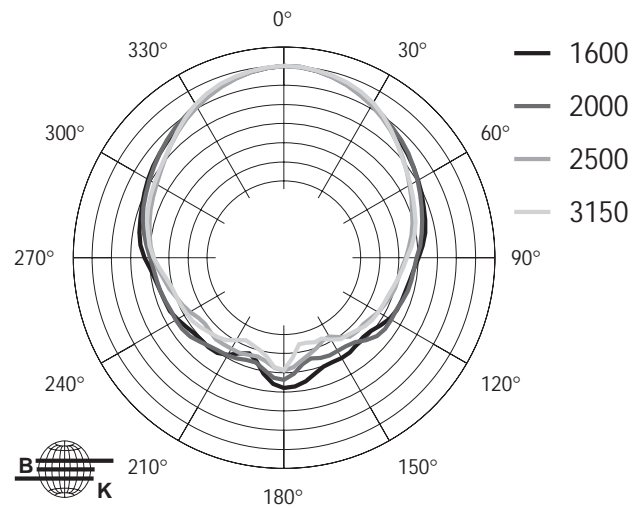
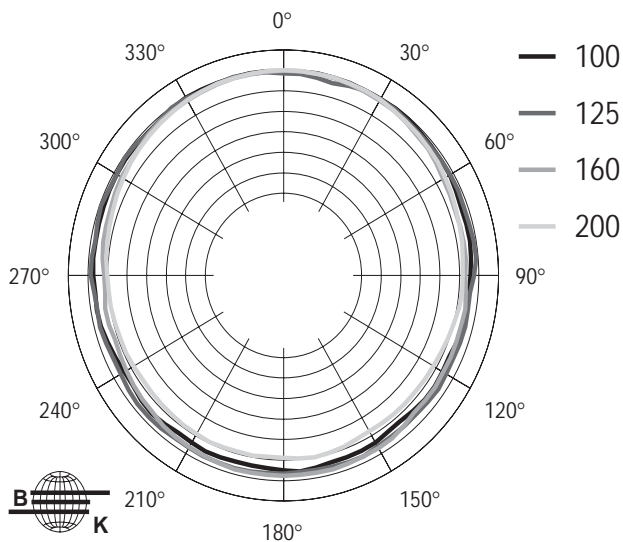


JF260Z Vertical $\pm 40^\circ$





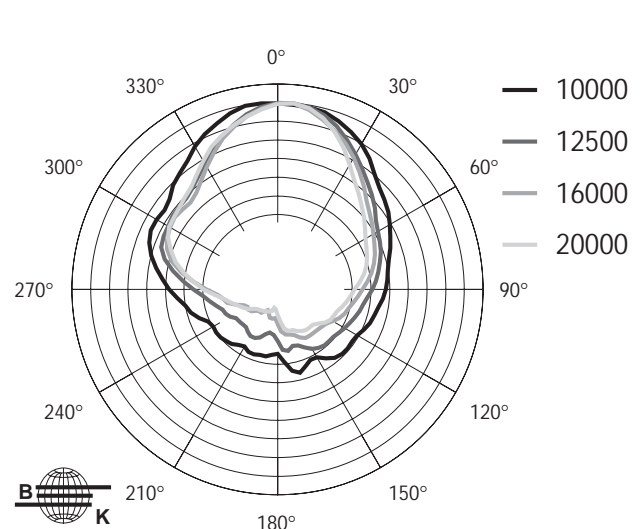
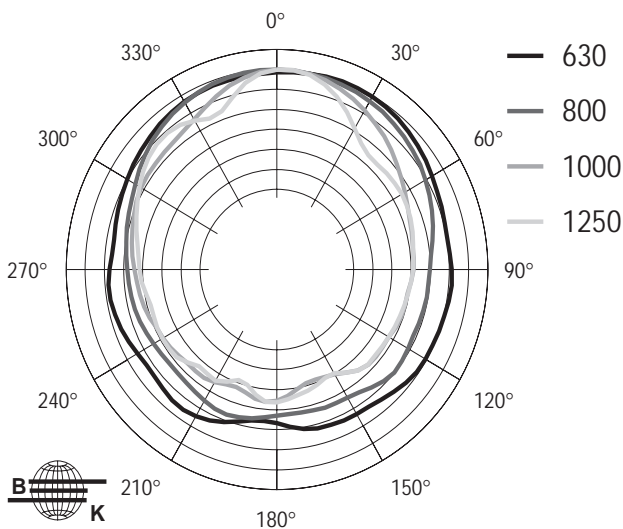
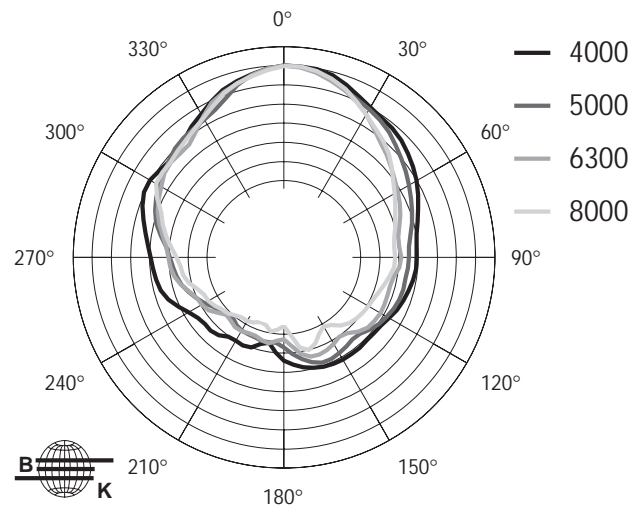
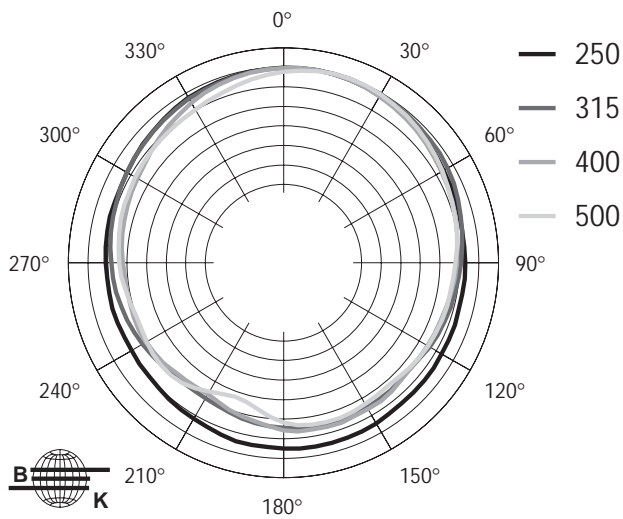
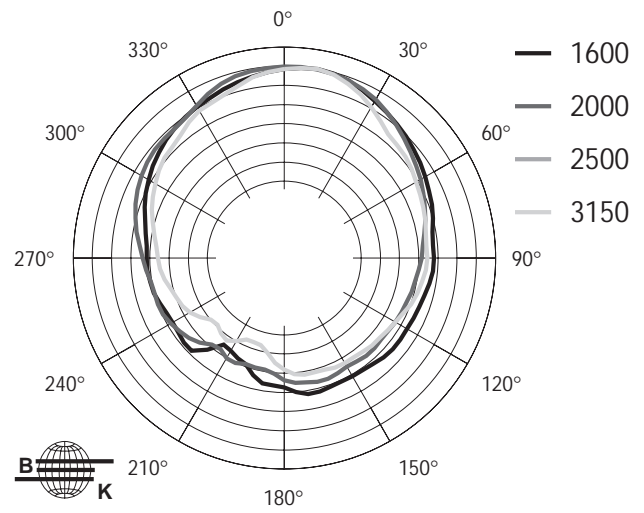
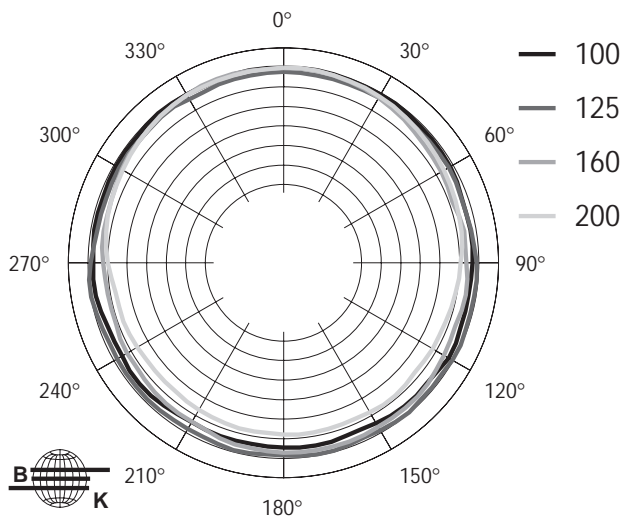
HORIZONTAL 1/3 OCTAVE POLAR DATA JF260Z



6 db/div.



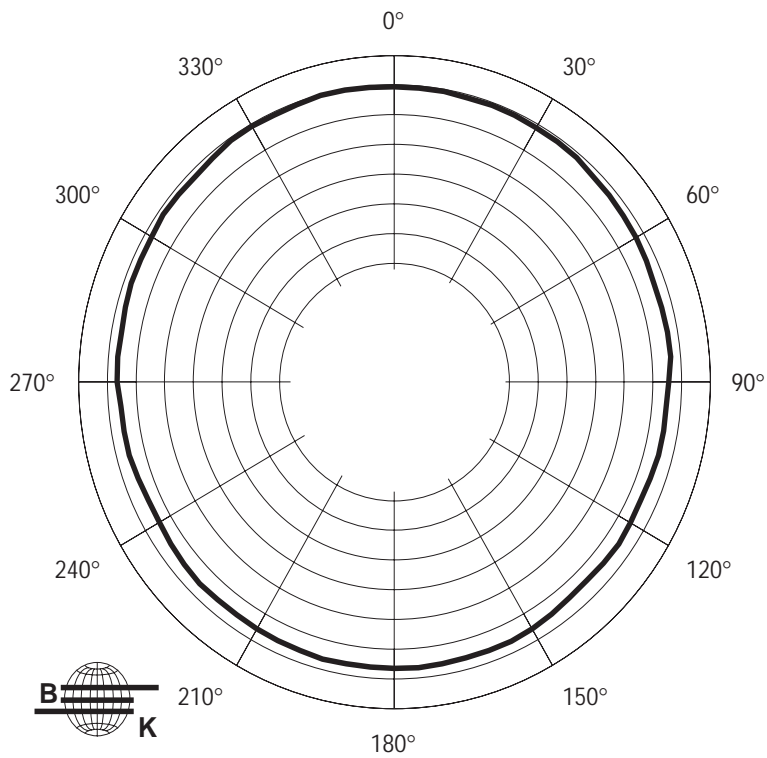
VERTICAL 1/3 OCTAVE POLAR DATA JF260Z



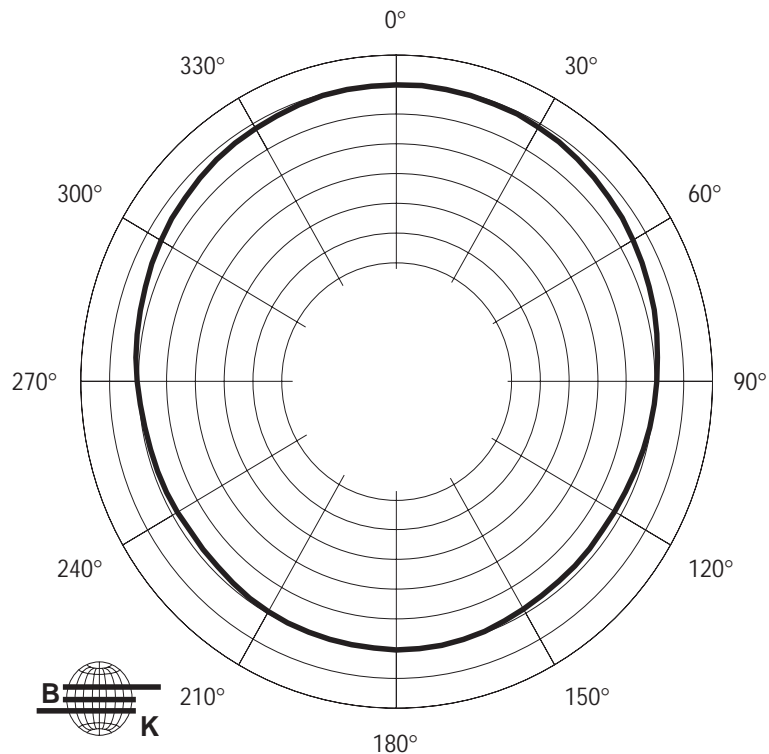


HORIZONTAL OCTAVE POLAR DATA JF260Z

JF260Z 125 Hz Horizontal Octave Polar Data



JF260Z 250 Hz Horizontal Octave Polar Data

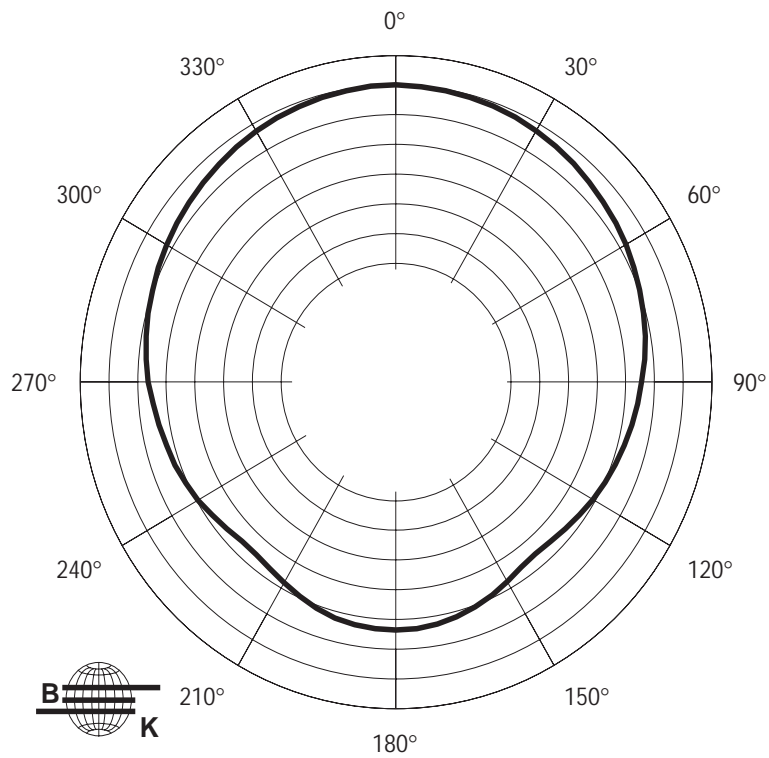


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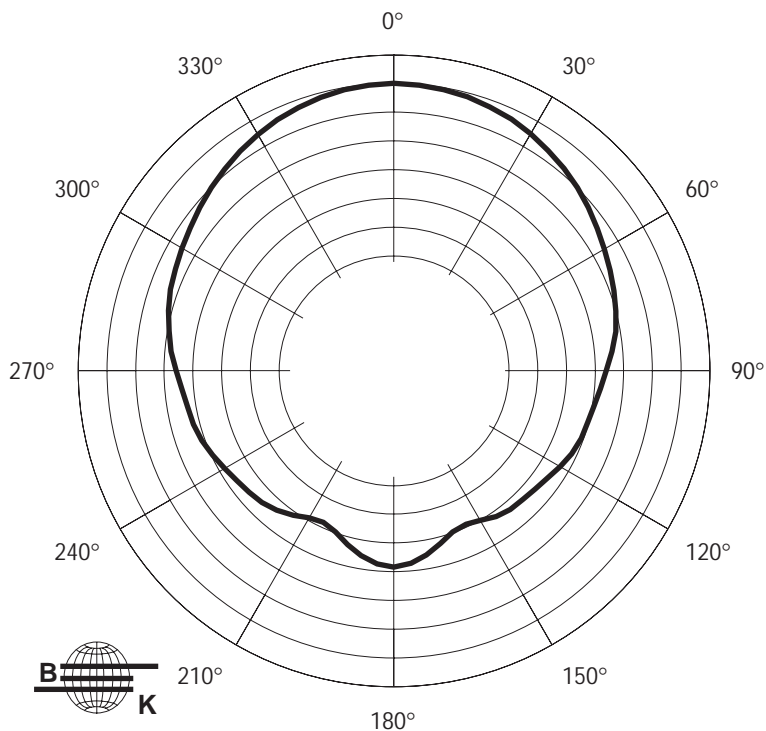


HORIZONTAL OCTAVE POLAR DATA JF260Z

JF260Z 500 Hz Horizontal Octave Polar Data



JF260Z 1000 Hz Horizontal Octave Polar Data

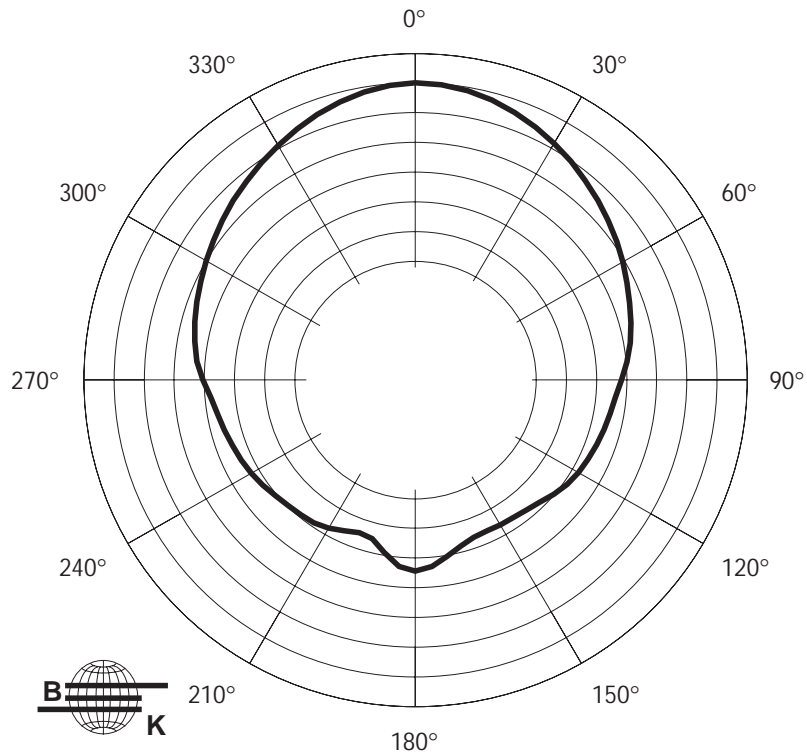


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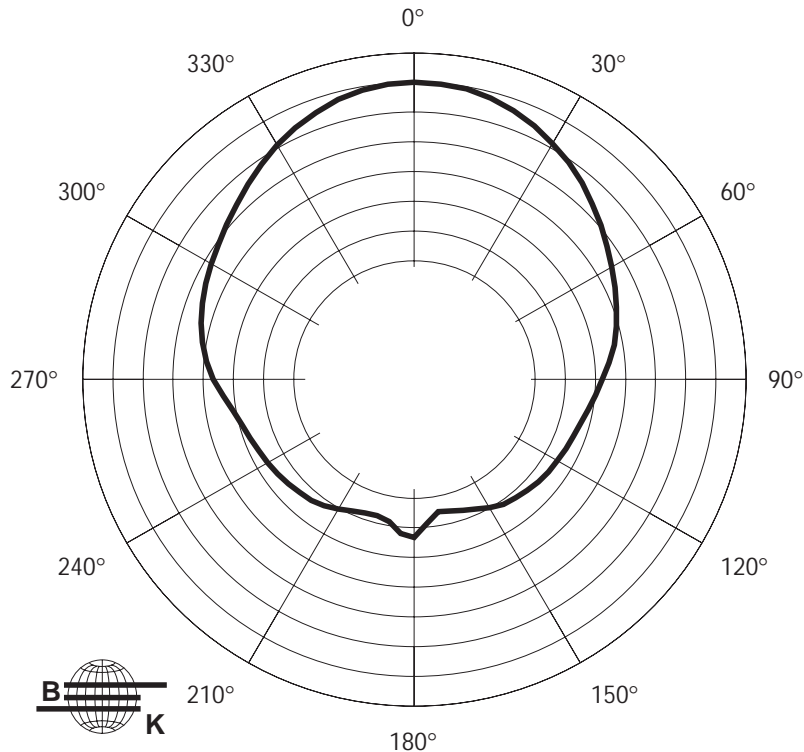


HORIZONTAL OCTAVE POLAR DATA JF260Z

JF260Z 2000 Hz Horizontal Octave Polar Data



JF260Z 4000 Hz Horizontal Octave Polar Data

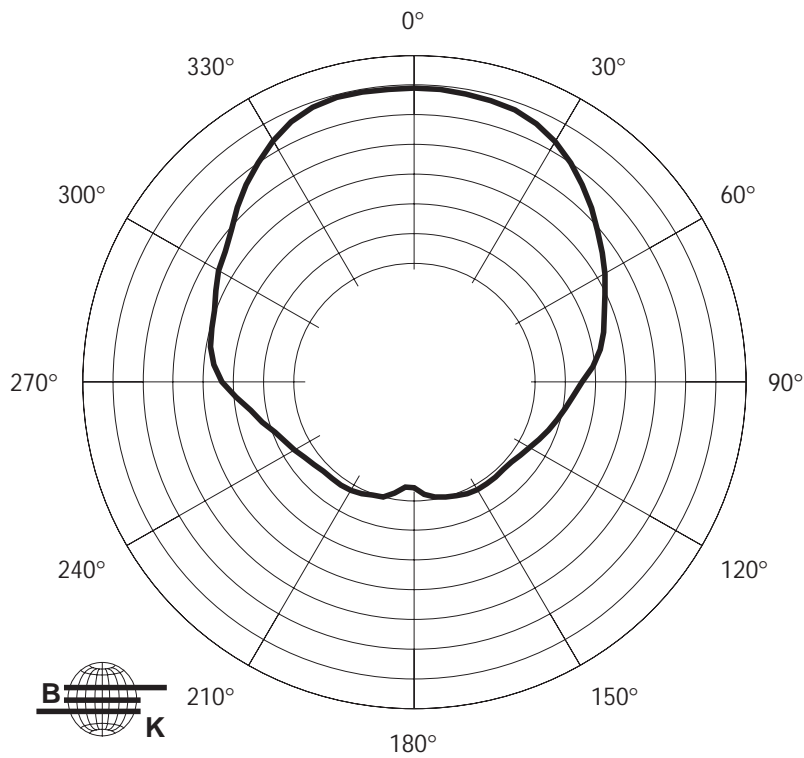


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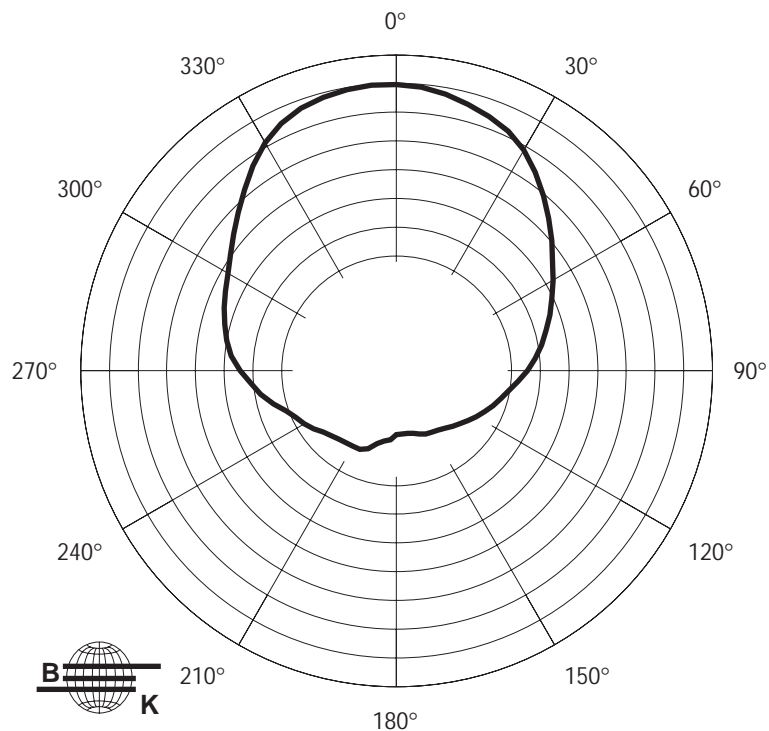


HORIZONTAL OCTAVE POLAR DATA JF260Z

JF260Z 8000 Hz Horizontal Octave Polar Data



JF260Z 16000 Hz Horizontal Octave Polar Data

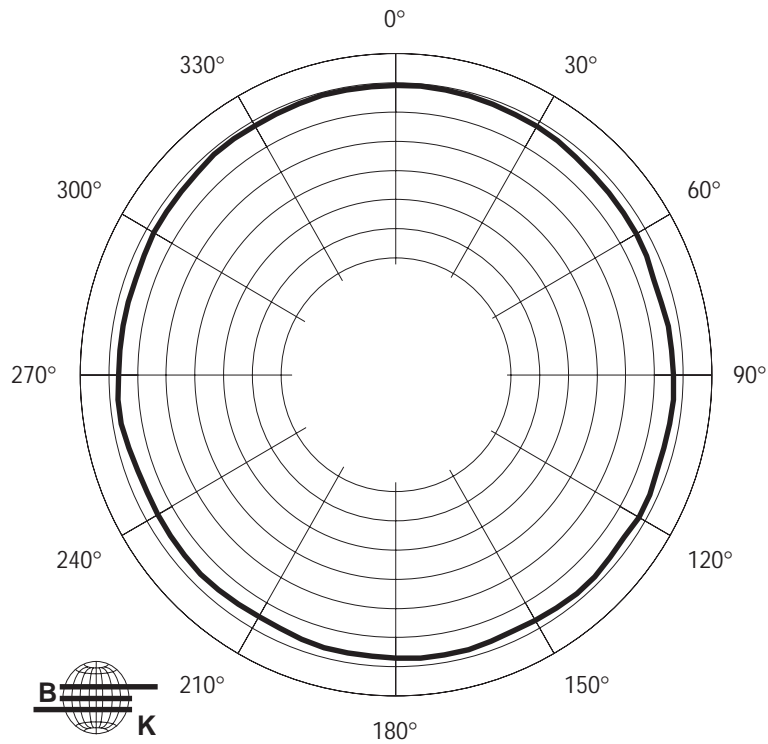


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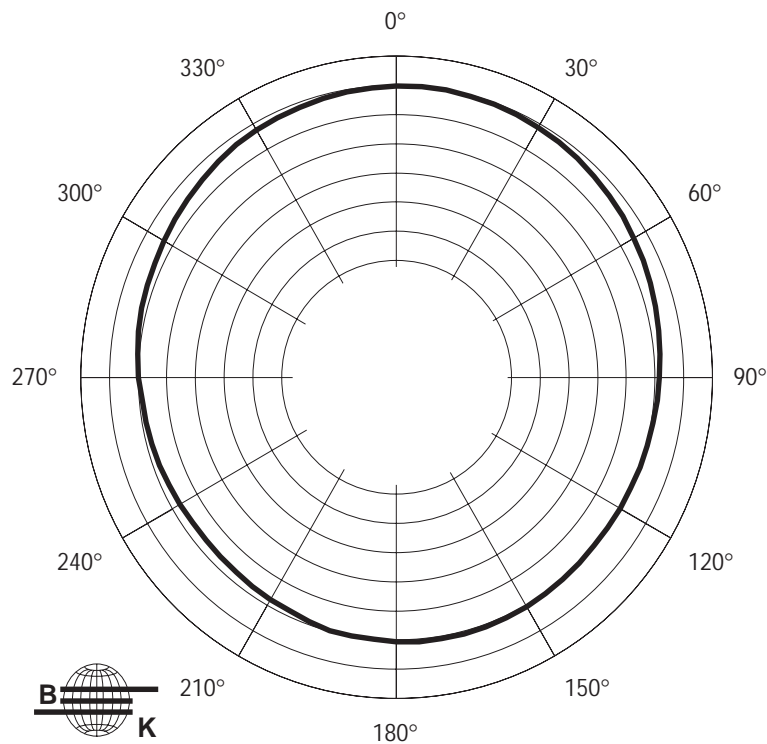


VERTICAL OCTAVE POLAR DATA JF260Z

JF260Z 125 Hz Vertical Octave Polar Data



JF260Z 250 Hz Vertical Octave Polar Data

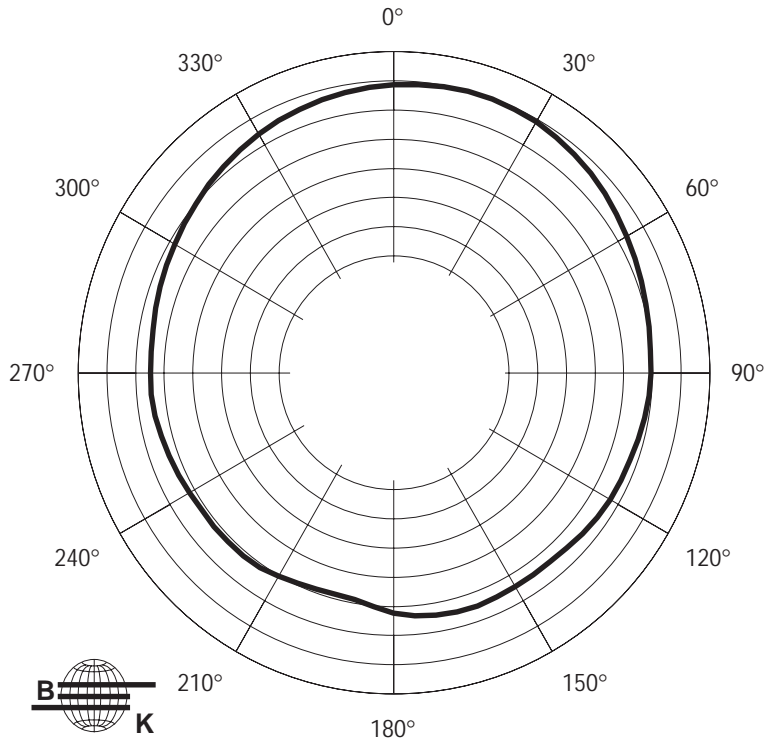


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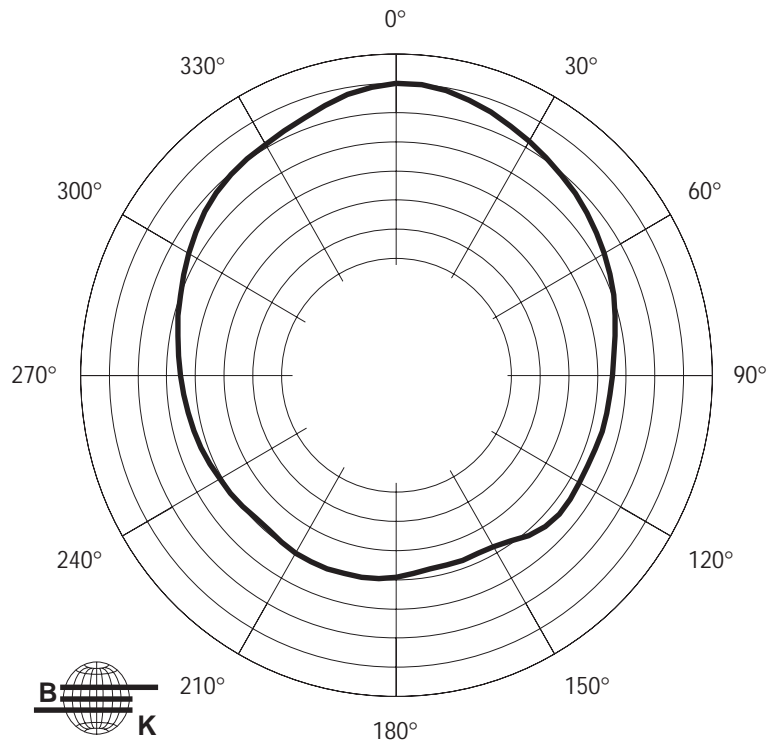


VERTICAL OCTAVE POLAR DATA JF260Z

JF260Z 500 Hz Vertical Octave Polar Data



JF260Z 1000 Hz Vertical Octave Polar Data

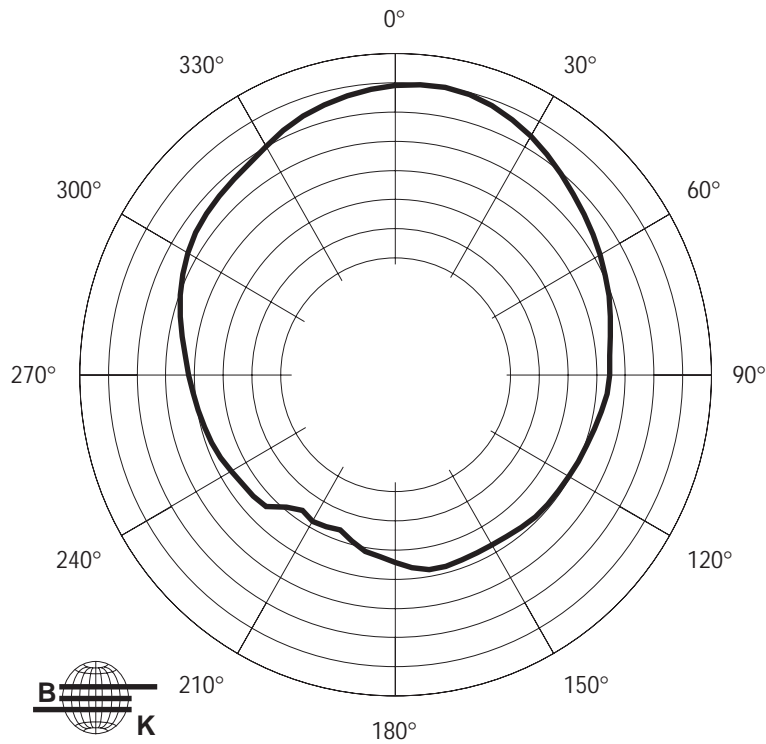


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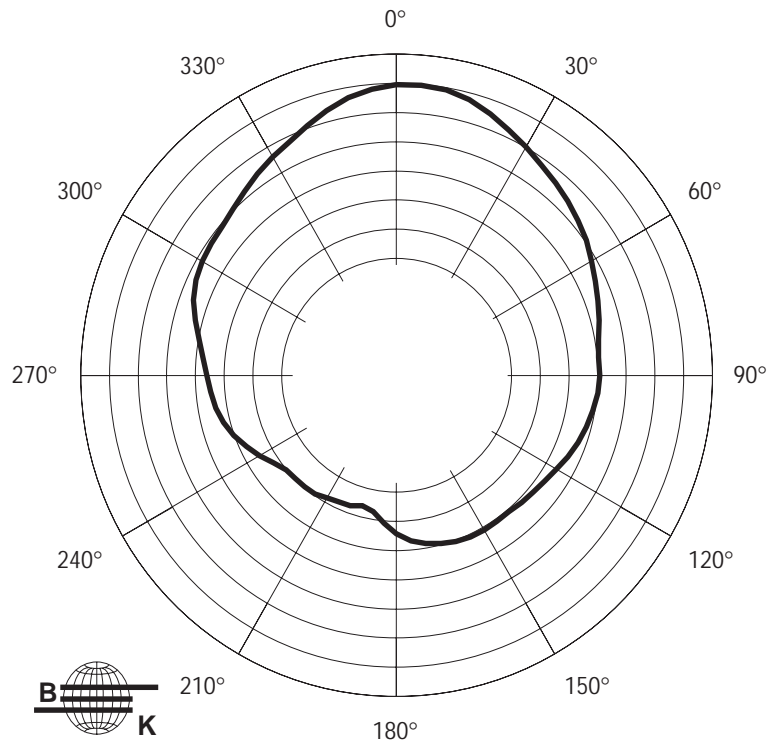


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JF260Z 2000 Hz Vertical Octave Polar Data



JF260Z 4000 Hz Vertical Octave Polar Data

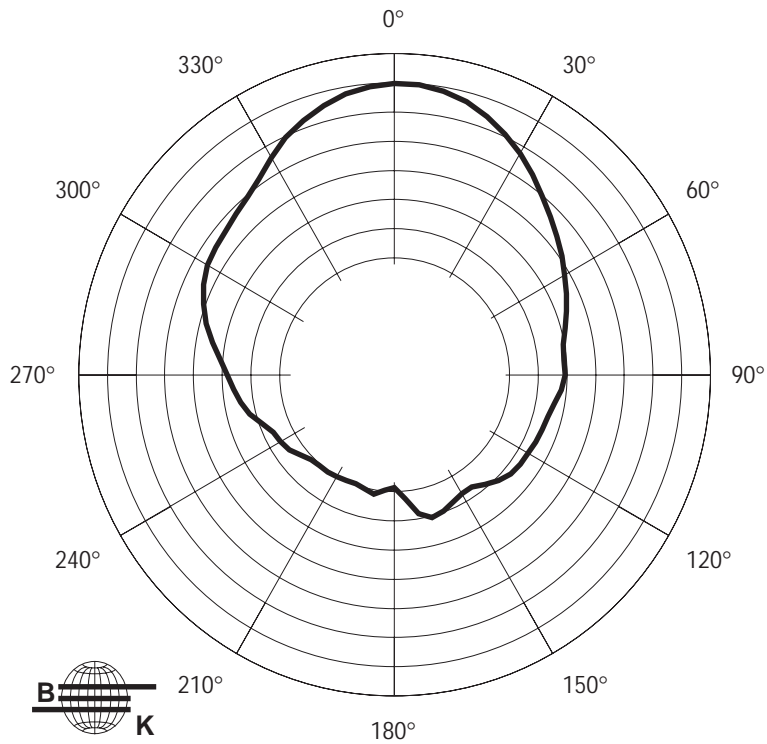


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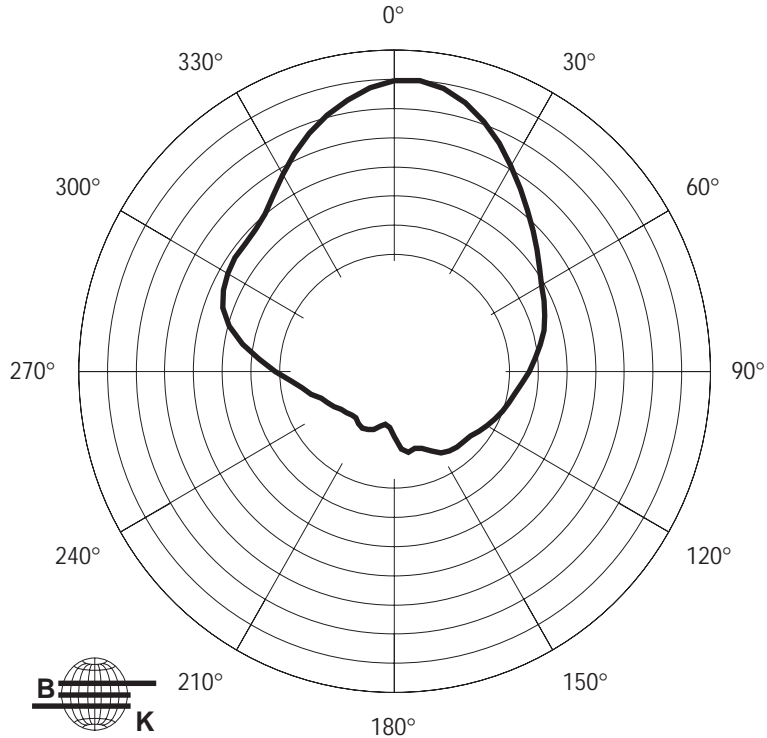


VERTICAL OCTAVE POLAR DATA JF260Z

JF260Z 8000 Hz Vertical Octave Polar Data



JF260Z 16000 Hz Vertical Octave Polar Data



6 db/div.