



TECHNICAL SPECIFICATIONS JF60

DESCRIPTION

A 2-way full range system (passive LF/HF crossover) in a vented trapezoidal enclosure. Includes a 6.5-in woofer and a 33mm tweeter on a Wave Guide Plate™.

APPLICATIONS

The JF60 is engineered for exceptional performance in the nearfield from a compact enclosure. Surprisingly high output, exceptional fidelity. Very effective as a fill/delay elements in larger overall systems or for foreground/background music reproduction. Six year warranty.

Applications include:

Band PA	MultiMedia
Small Retail Spaces	Presentation Suite
Small HOW's	Theaters

DESCRIPTIVE DATA

Part Number	999051
Product Group	J
LF Subsystem & Loading	1x 6.5-in Cone
HF Subsystem & Loading	1x 33mm Soft Dome Tweeter on Wave Guide Plate™
System Configuration	2-way, Full Range
Powering Configuration(s)	Passive LF/HF Crossover
Recommended High-Pass Frequency (24 dB/Octave)	70Hz
Cabinet Type (shape)	Trapezoidal
Enclosure Materials	Baltic Birch Plywood
Finish	Black Catalyzed Polyurethane
Connectors	1x Neutrik NL4 Speakon 2-Terminal Barrier Strip
Suspension Hardware	(6) 1/4"-20 Threaded Mounting/ Suspension Points (1 each top and bottom plus 4 back for Omnimount Series 75), (2) 5/16"-18 Threaded Mounting/Suspension Points for external Ultimate Brand standmount adapter
Grill	Vinyl Coated Perforated Steel
Options	980007 Wallmount Bracket



NOMINAL DATA

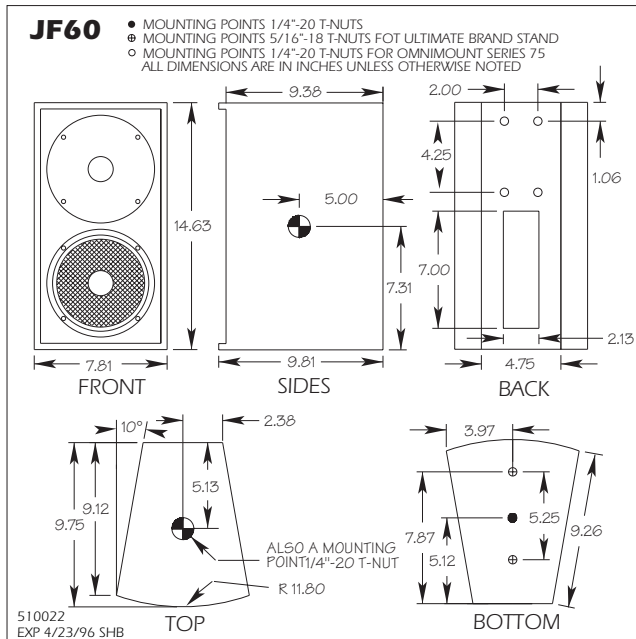
Frequency Response (Hz)		
	±3 db	84Hz to 18kHz
	-10 dB	55Hz
Axial Sensitivity (dB SPL/1 Watt/1m)	90	
Impedance (Ohms)	5	
Power Handling (Watts)	AES Standard 200	
Calculated Maximum Output (dB SPL, @ 1m)	119.0	
	Long Term	113.0
Nominal Coverage Angle / -6 dB points (degrees)	Conical 110	
Recommended Complementary Systems	Sub SB120 / SB150	
Dimensions	inches	millimeters
	Height	14.625 371
	Width	7.875 200
	Depth	9.75 248
	Back Width	4.75 121
	Trapezoid Angle	10 degrees per side
Weights	pounds	kilograms
	Net Weight	17 7.7
	Shipping Weight	19.5 8.9





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DIMENSIONAL DRAWING



SERVICE ITEMS

LF: Complete Cone Driver	EAW Part No. 804003
HF: Complete Compression Driver/Tweeter	EAW Part No. 805004
HF: Diaphragm Assembly	EAW Part No. 806022
Filter/Crossover Network: Complete Assembly	EAW Part No. 201315

ARCHITECTURAL SPECIFICATIONS

The two-way full range loudspeaker systems shall incorporate a 6.5-in LF transducer and a 35mm softdome tweeter HF transducer.

The system shall have a nominal coverage pattern of 110° (conical). An internal passive filter network shall provide fourth order acoustical crossover and system equalization.

System frequency response shall vary no more than ± 3 dB from 84 Hz to 18 kHz measured on axis. The loudspeaker shall produce a Sound Pressure Level (SPL) of 90 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 119 SPL on axis at 1 meter. The loudspeaker shall handle 200 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 5 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 a 2-terminal barrier strip and one Neutrik NL4 Speakon. The following mounting/suspension shall be provided: two 1/4"-20 threaded mounting/suspension points (1 each top and bottom); four 1/4"-20 threaded mounting/suspension points (back) to mount an Omnimount Series 75; two 5/16"-18 threaded mounting/suspension points mount an external Ultimate Brand standmount adapter. The front of the loudspeaker shall be covered with a vinyl coated perforated steel grill.

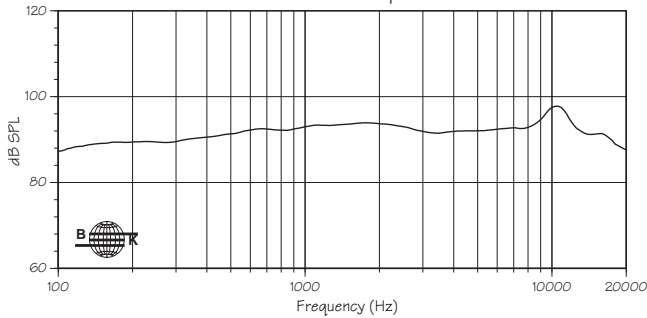
The two-way full range loudspeaker shall be the EAW model JF60.



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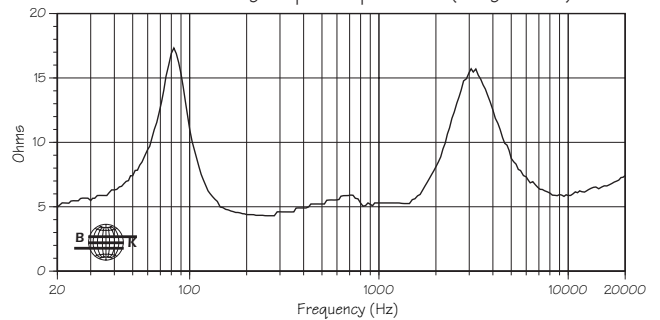
FREQUENCY RESPONSE

JF60 Axial Response



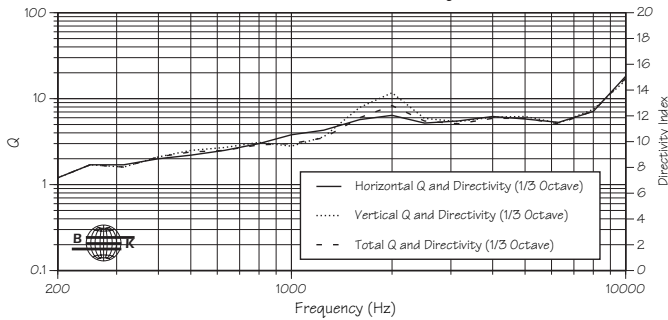
INPUT IMPEDANCE

JF60 Full Range Input Impedance (Magnitude)



Q & DIRECTIVITY INDEX (DI)

JF60 Q and Directivity

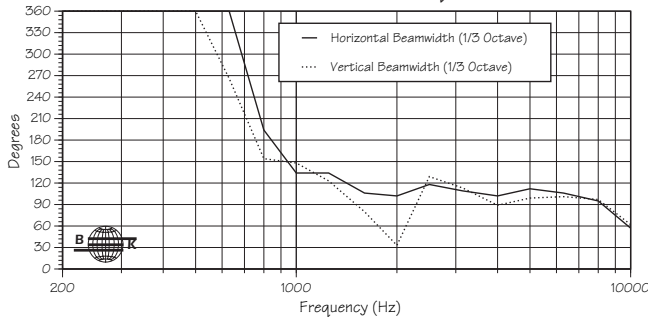


Q & BEAMWIDTH BY FREQUENCY

Freq	Hor Q	Ver Q	Tot Q	Hor Beamwidth	Ver Beamwidth
100	1	1.1	1.1	360	360
125	0.9	0.9	0.9	360	360
160	1.6	1.7	1.7	360	360
200	1.2	1.2	1.2	360	360
250	1.7	1.7	1.7	360	360
315	1.7	1.6	1.6	360	360
400	2	2.1	2.1	360	360
500	2.2	2.5	2.4	360	360
630	2.5	2.7	2.5	360	266
800	3	3.1	2.9	194	154
1000	3.8	2.8	3	134	148
1250	4.3	3.6	3.5	134	123
1600	5.7	7.9	6	106	80
2000	6.4	11.7	8.3	102	33
2500	5.2	5.9	5.5	118	129
3150	5.5	5.4	5.1	109	113
4000	6.2	6.1	5.9	102	89
5000	5.8	6.2	5.9	112	99
6300	5.3	5.2	5.1	106	101
8000	7.1	7.5	7.2	95	97
10000	18.2	16.4	17.3	57	62
12500	10.5	10.4	10.4	66	66
16000	23.1	18.2	20.4	45	53
20000	20.9	15.9	17.4	44	68

BEAMWIDTH

JF60 Beamwidth vs Frequency

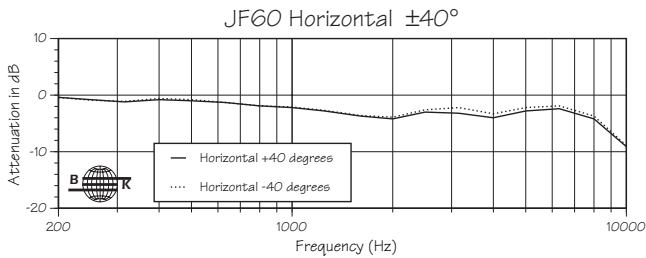
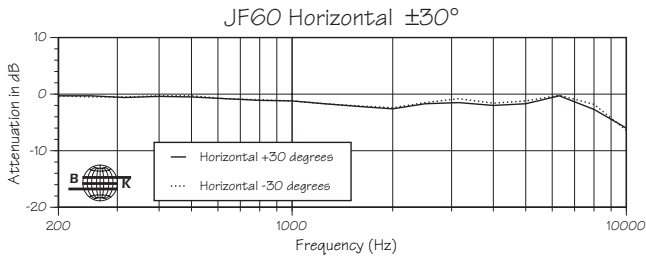
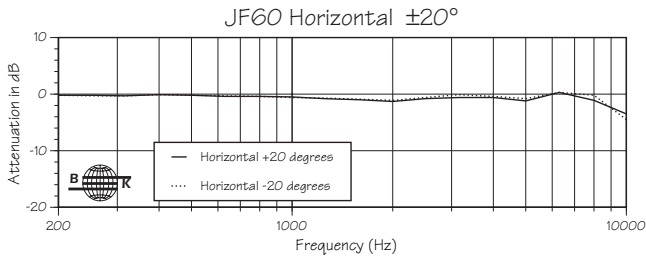
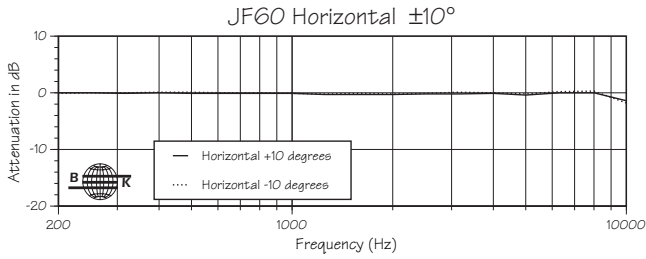




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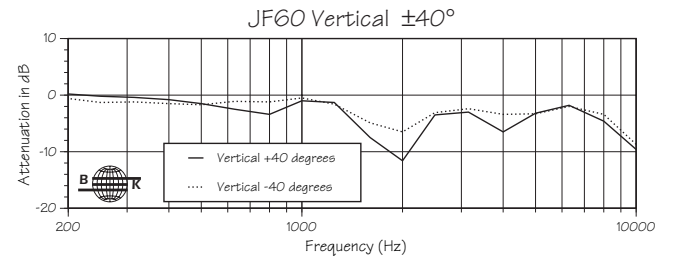
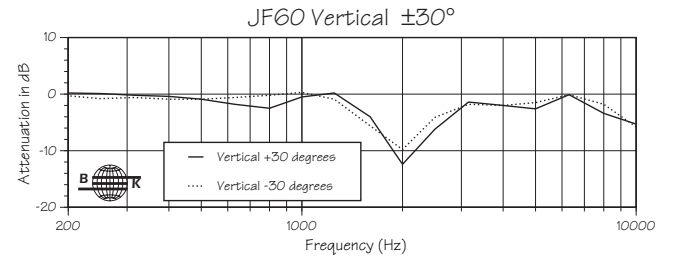
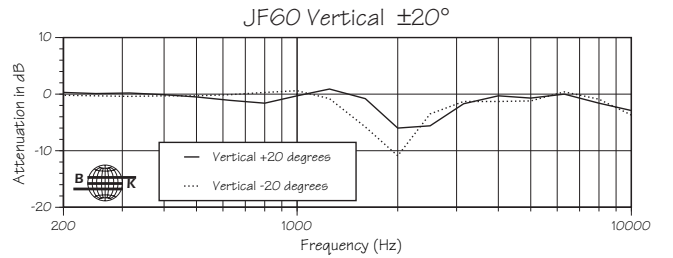
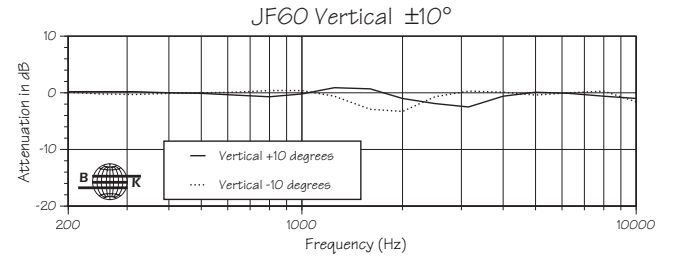
HORIZONTAL OFF-AXIS RESPONSE

On-axis response normalized to 0 dB.



VERTICAL OFF-AXIS RESPONSE

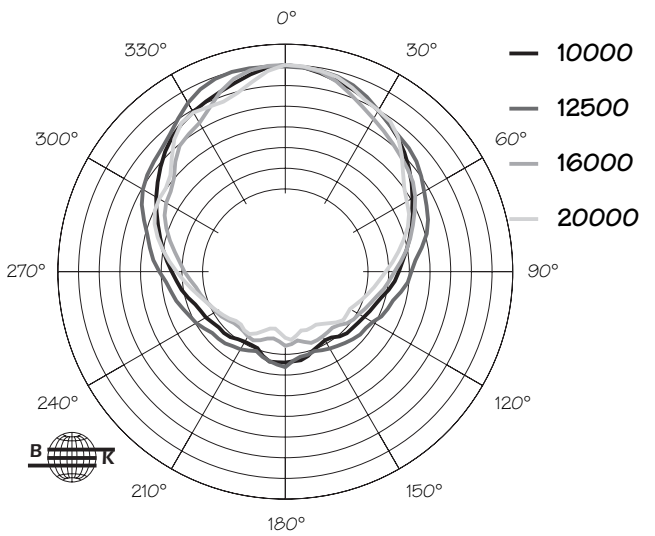
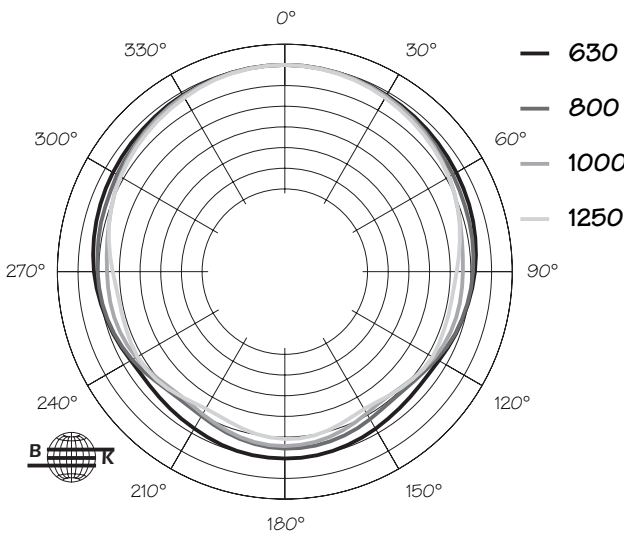
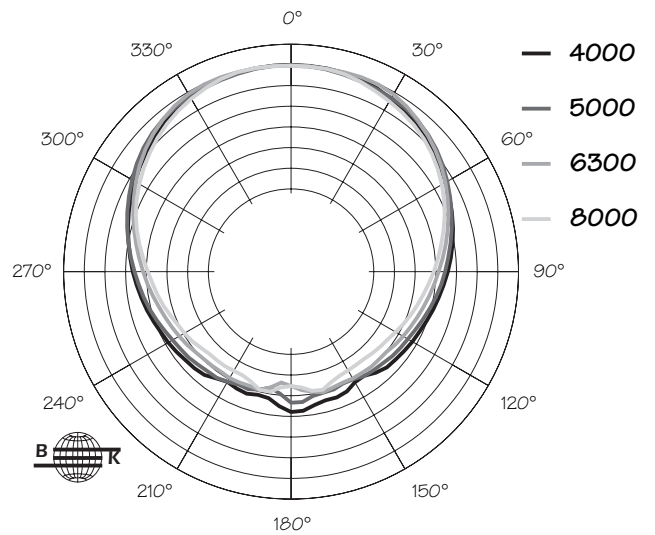
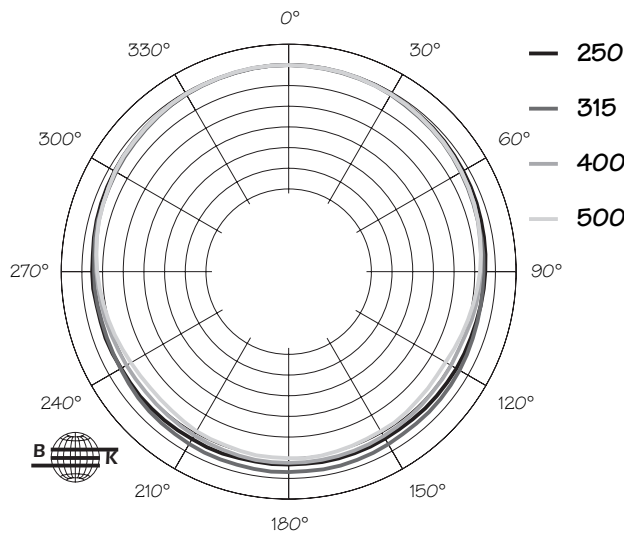
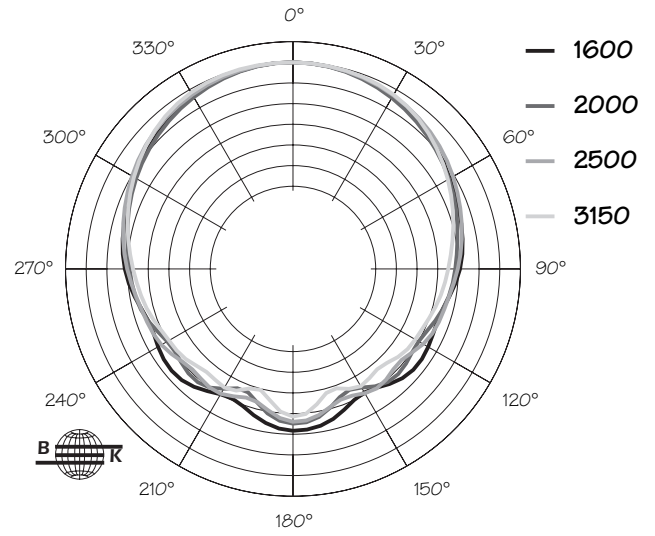
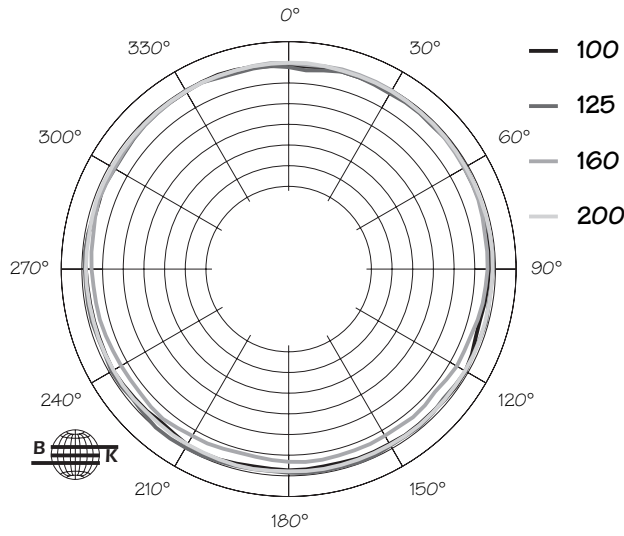
On-axis response normalized to 0 dB.





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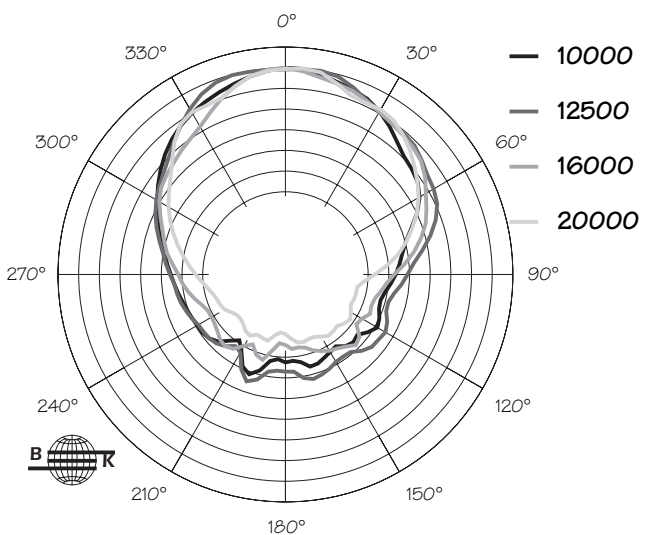
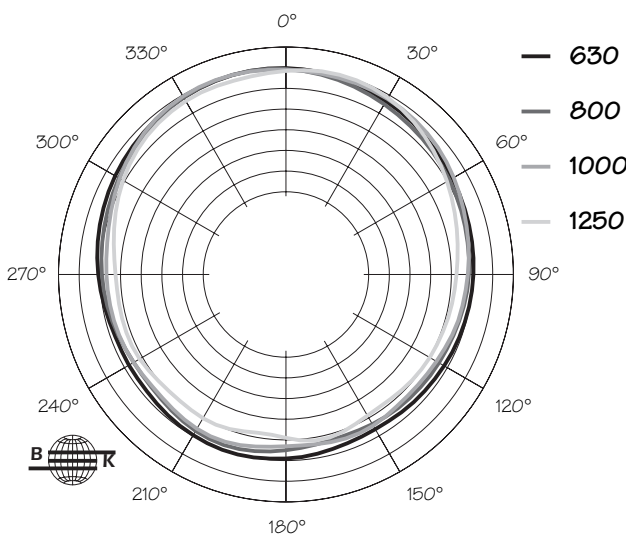
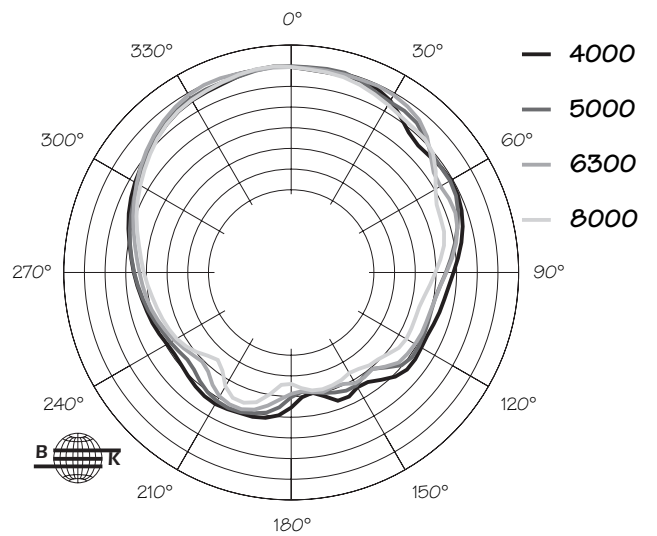
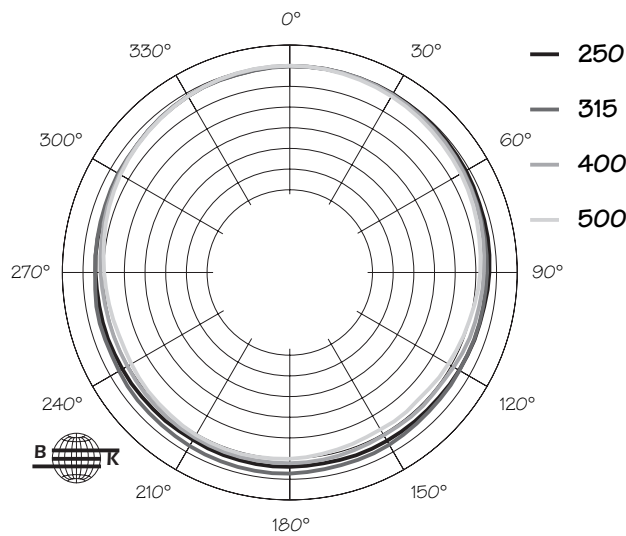
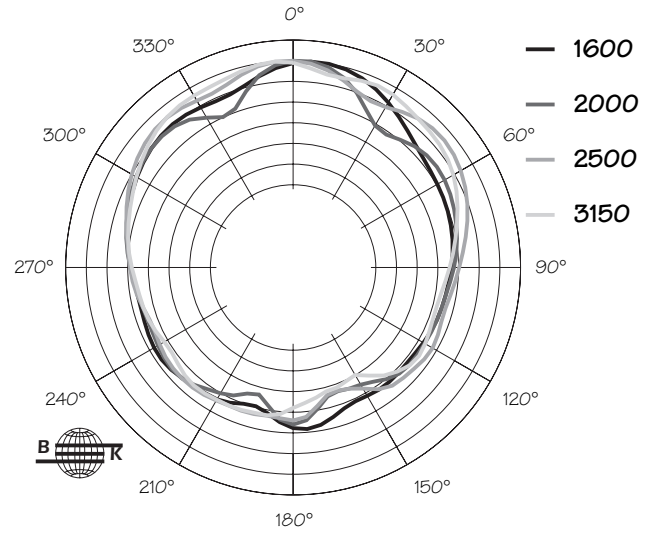
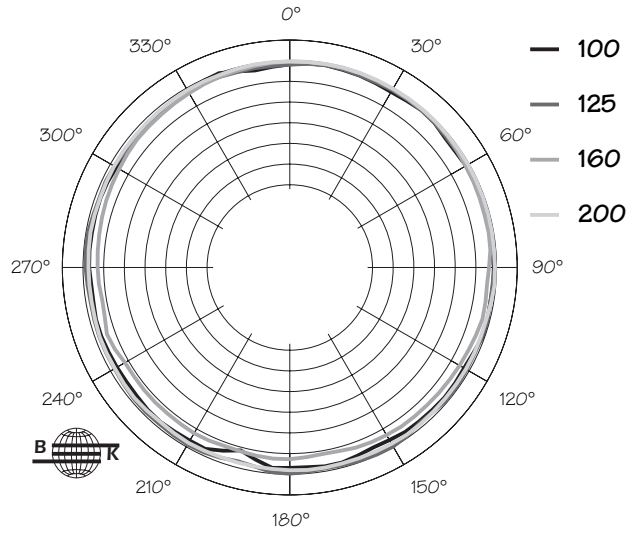
HORIZONTAL 1/3 OCTAVE POLAR DATA





TECHNICAL SPECIFICATIONS JF60

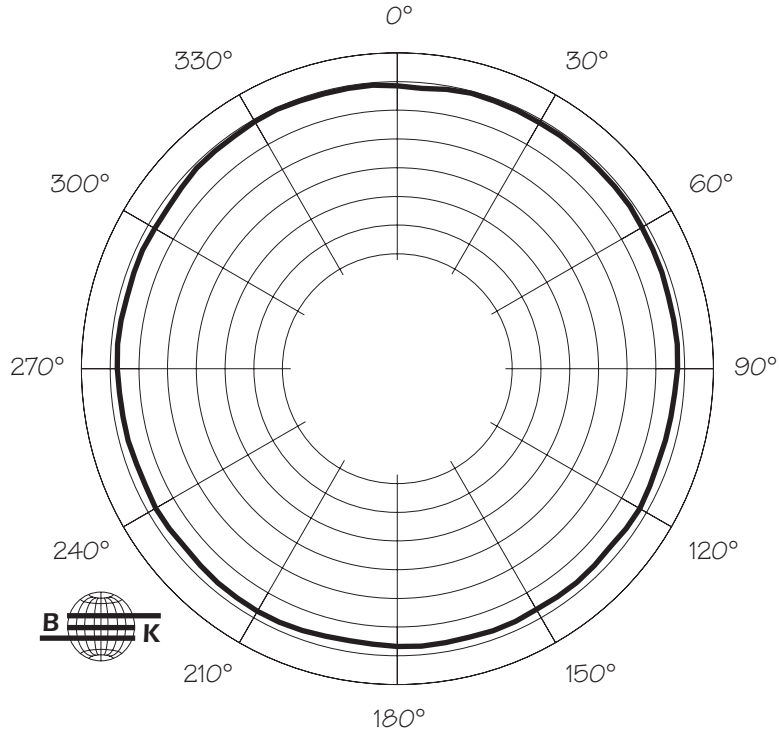
VERTICAL 1/3 OCTAVE POLAR DATA



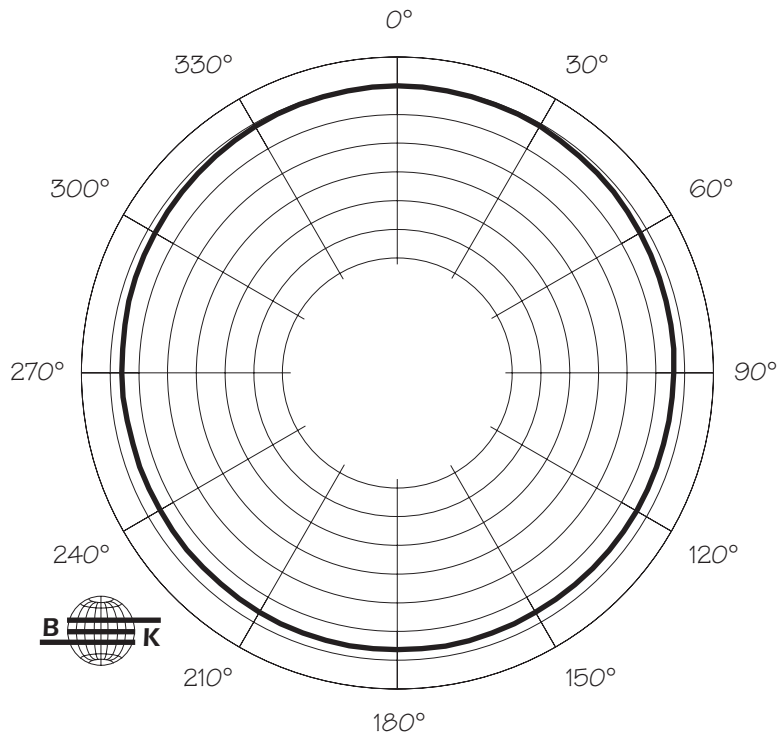


HORIZONTAL OCTAVE POLAR DATA

JF60 125 Hz Horizontal Octave Polar Data



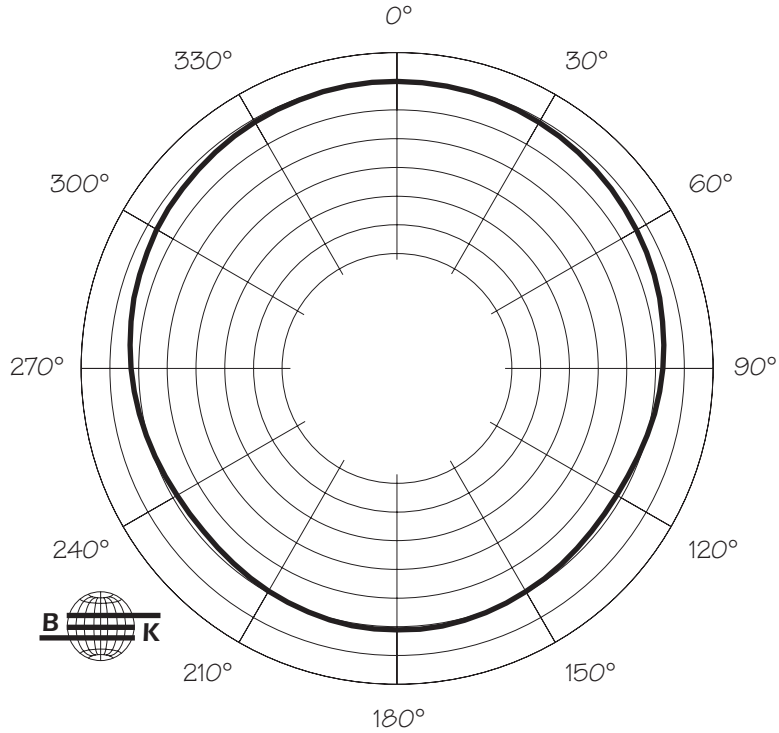
JF60 250 Hz Horizontal Octave Polar Data



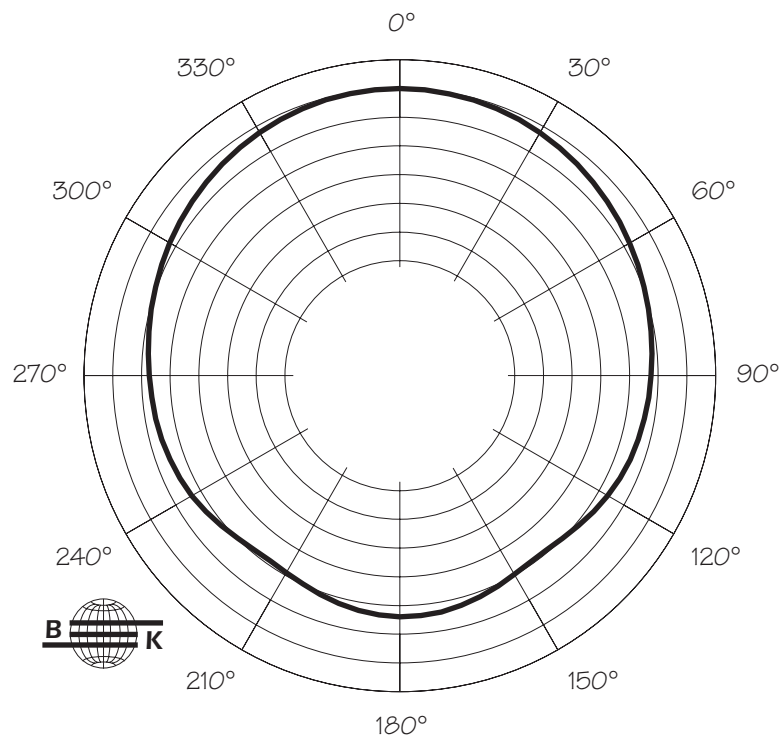


HORIZONTAL OCTAVE POLAR DATA

JF60 500 Hz Horizontal Octave Polar Data



JF60 1000 Hz Horizontal Octave Polar Data

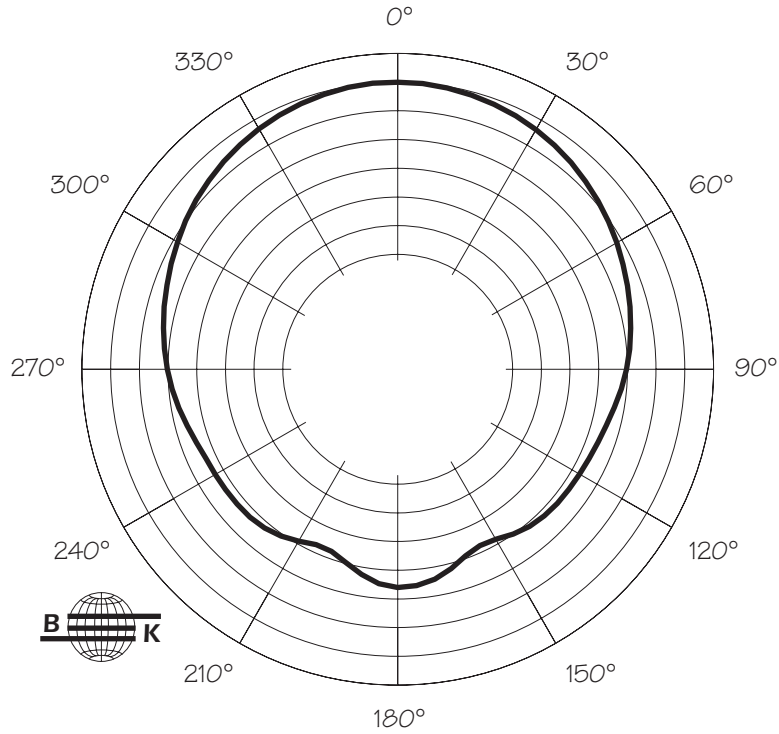




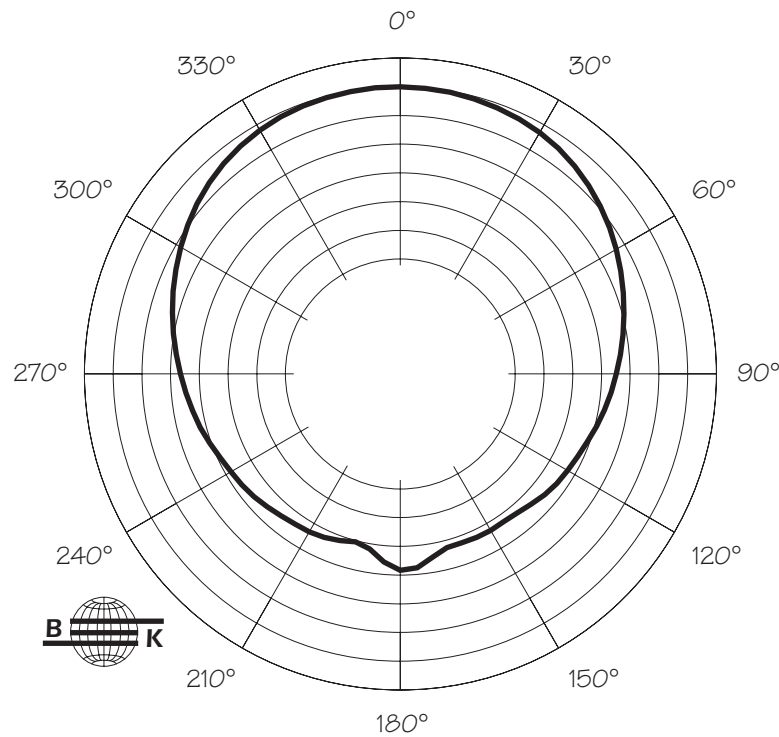
TECHNICAL SPECIFICATIONS JF60

HORIZONTAL OCTAVE POLAR DATA

JF60 2000 Hz Horizontal Octave Polar Data



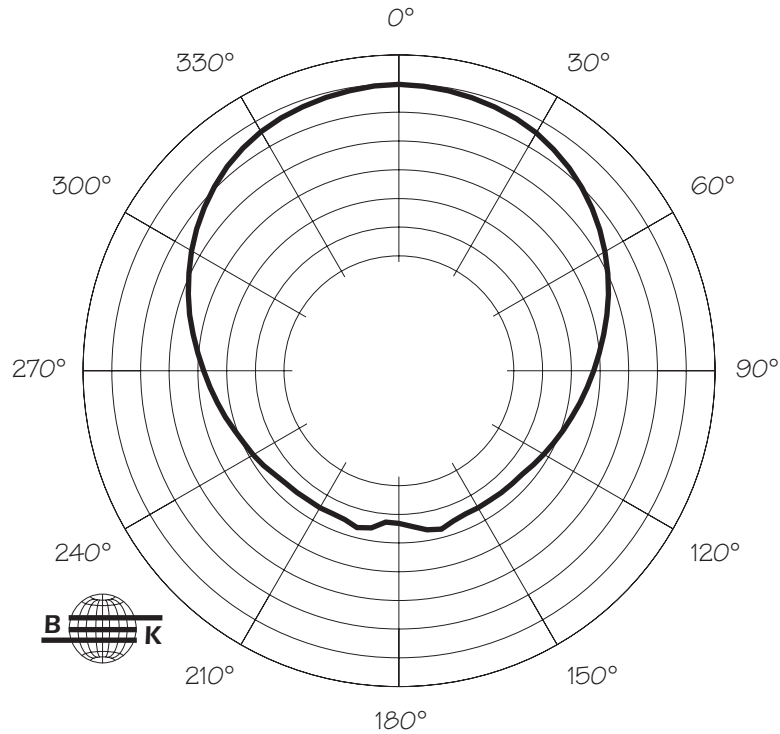
JF60 4000 Hz Horizontal Octave Polar Data



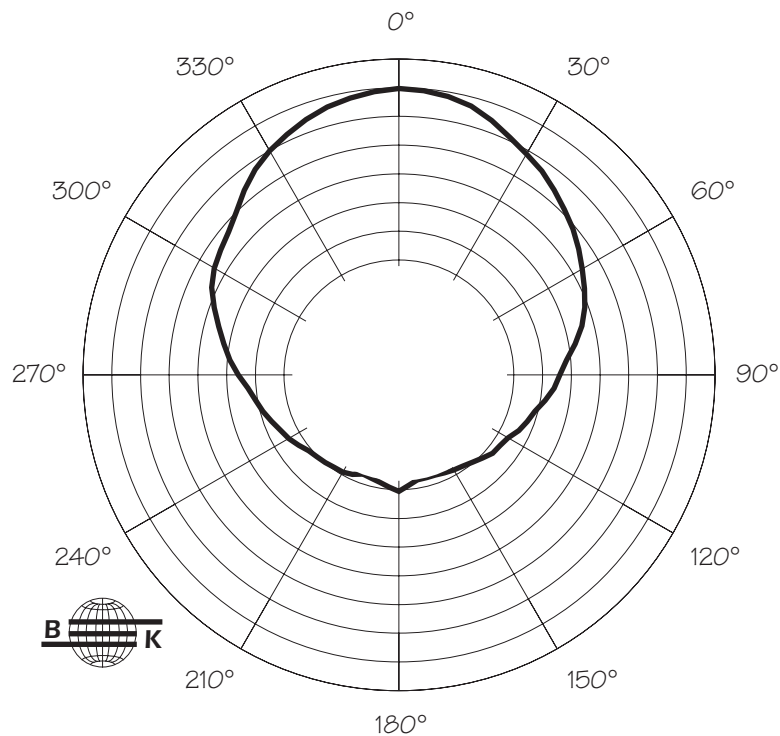


HORIZONTAL OCTAVE POLAR DATA

JF60 8000 Hz Horizontal Octave Polar Data



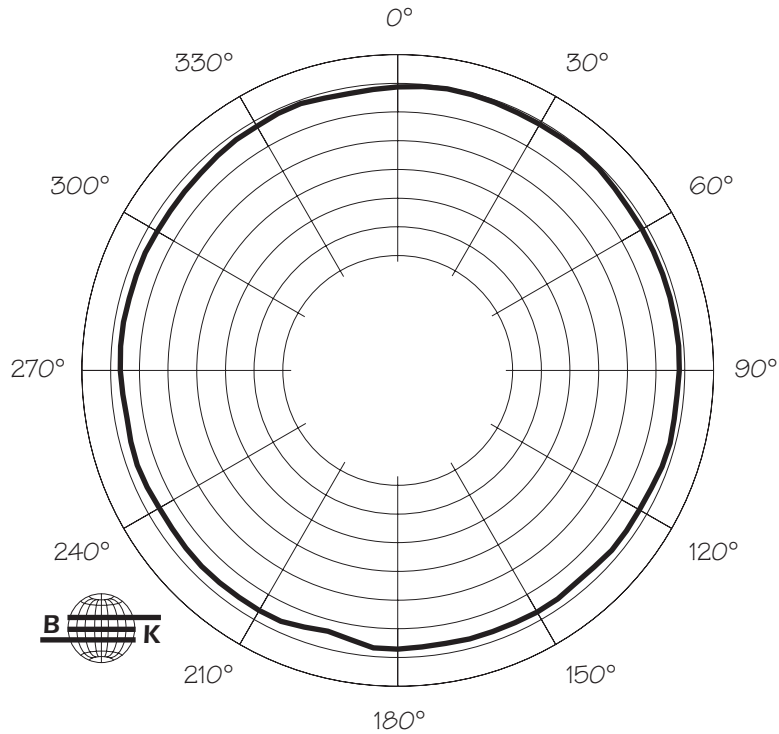
JF60 16000 Hz Horizontal Octave Polar Data



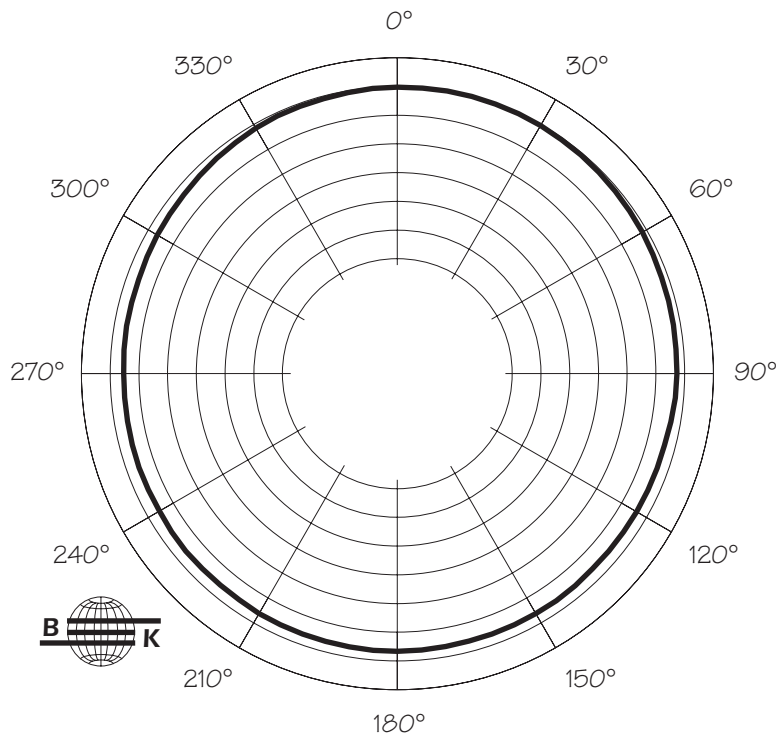


VERTICAL OCTAVE POLAR DATA

JF60 125 Hz Vertical Octave Polar Data



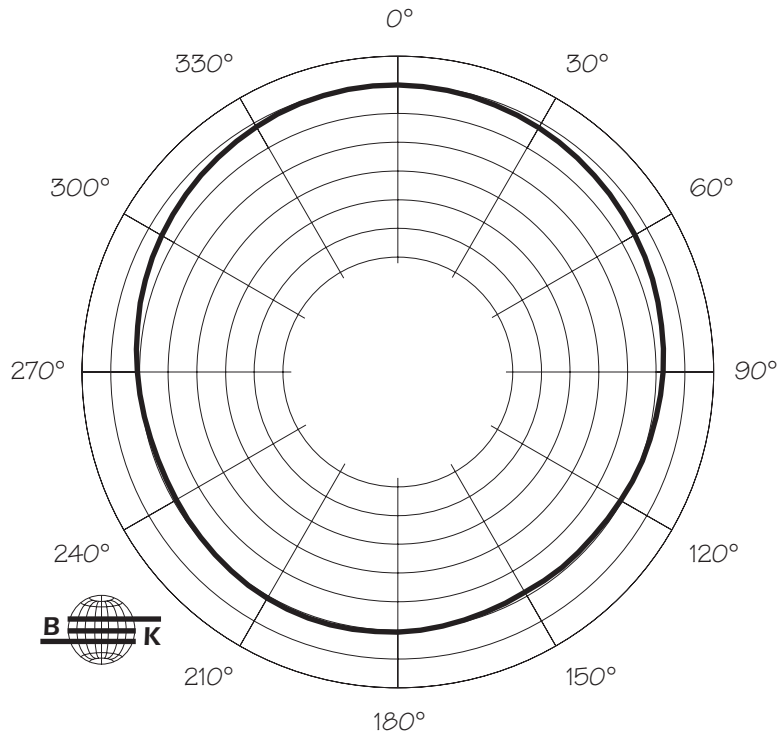
JF60 250 Hz Vertical Octave Polar Data



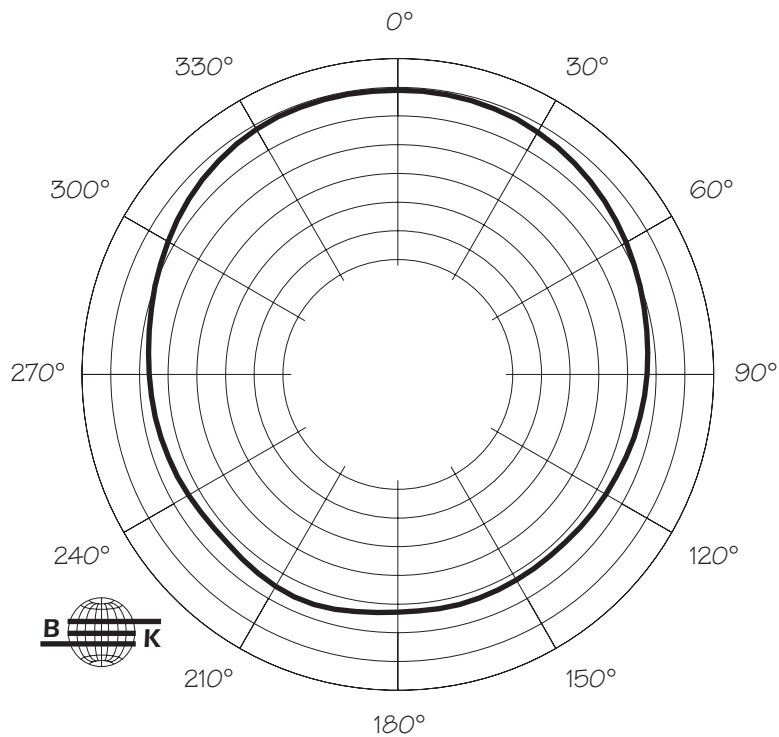


VERTICAL OCTAVE POLAR DATA

JF60 500 Hz Vertical Octave Polar Data



JF60 1000 Hz Vertical Octave Polar Data

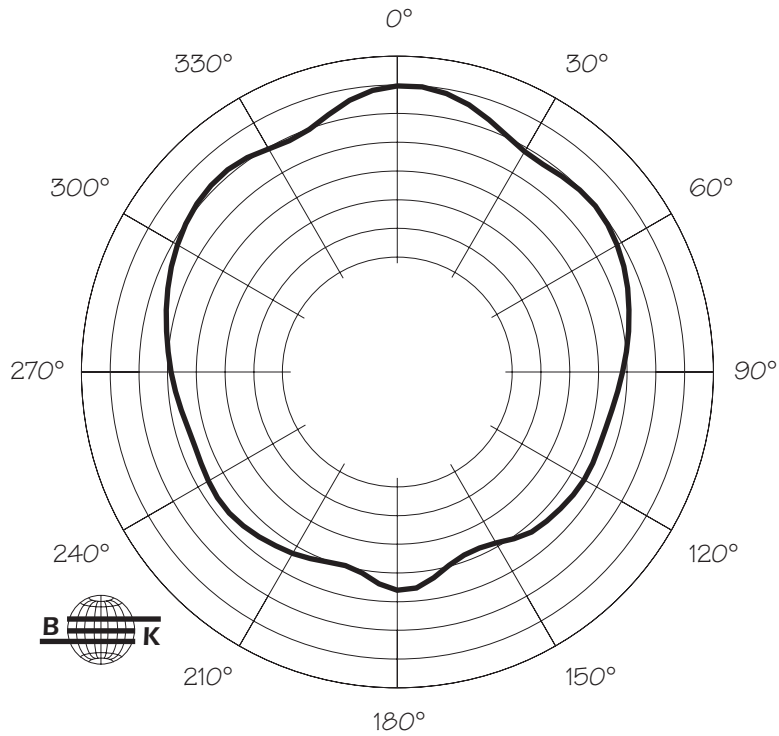




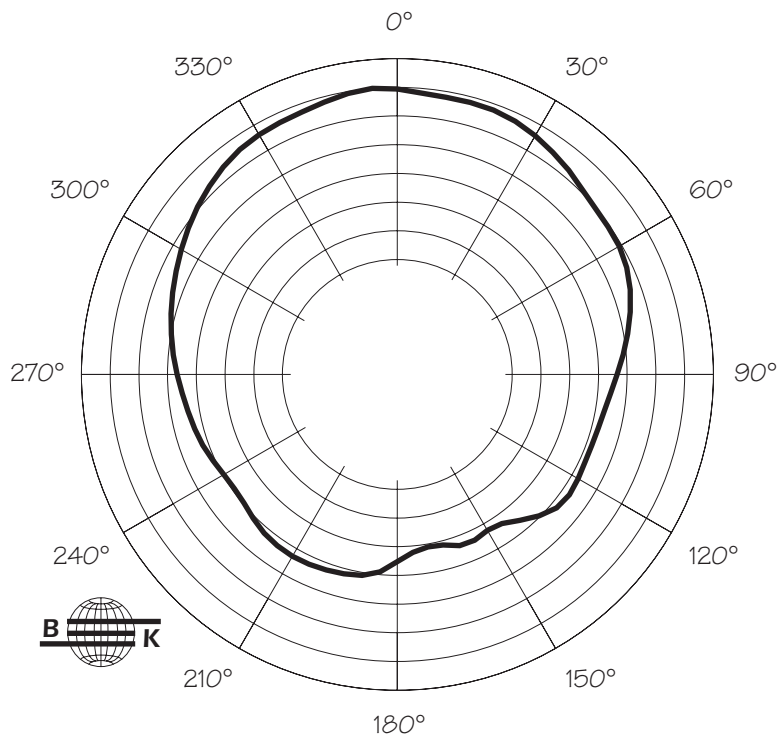
TECHNICAL SPECIFICATIONS JF60

VERTICAL OCTAVE POLAR DATA

JF60 2000 Hz Vertical Octave Polar Data



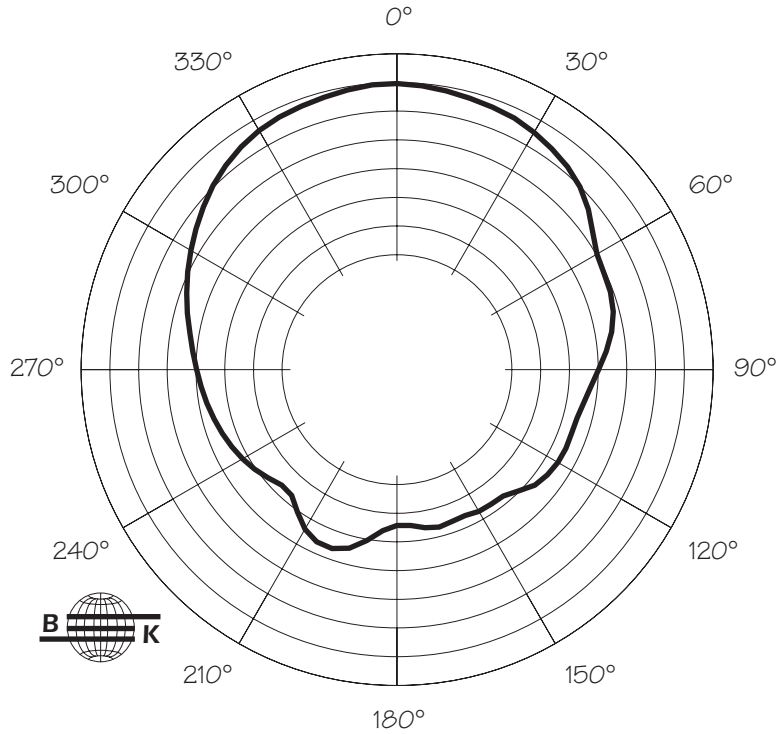
JF60 4000 Hz Vertical Octave Polar Data





VERTICAL OCTAVE POLAR DATA

JF60 8000 Hz Vertical Octave Polar Data



JF60 16000 Hz Vertical Octave Polar Data

