

KI-398-RGL

HIGH OUTPUT 2-WAY VERTICAL LINE ARRAY SYSTEM



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PRODUCT OVERVIEW

The Klipsch KI-398-RGL is a full-range 22.5° trapezoidal design ideally suited for use as a vertical line array in a behind the screen cinema system. The loudspeaker has incredible output capability featuring a 15" high excursion cast frame woofer, large format 3" titanium compression driver and internal high-current full-range crossover.

The KI-398-RGL utilizes a modified Tractrix® horn that provides a well defined 90 X 50 degree dispersion pattern for optimum coverage and smooth off-axis response. Maximum output is an impressive 126 dB continuous, 132 dB peak.

All components are housed in a rugged birch plywood enclosure with aesthetically profiled edges and a tough durable finish. The KI-398-RGL vertical line array speaker has 16 suspension points (4 per side) for flexible mounting and rigging bar compatibility. Side-plates are available for vertical line array configurations.

FEATURES

- Very high output capability with exceptional low-distortion clarity
- Compact 22.5° symmetrical trapezoidal design
- 15" high excursion cast frame heavy-duty woofer
- Large 3" titanium diaphragm high frequency compression driver
- 90 X 50 Tractrix Horn for tight pattern control
- 16 suspension points (4 per side) for flexible mounting and rigging bar compatibility

DESIGNED AND MADE IN THE USA

USING DOMESTIC AND IMPORTED COMPONENTS

In 1946, Paul W Klipsch, genius & maverick, hand-built his first loudspeaker in a tin shed with the intention of bringing live music into his living room. Remember great sound? We do, too. Today, Klipsch's KI series speaker enclosures are made in the USA, by proud craftsmen in Hope, Arkansas. Just like PWK intended.

SPECIFICATIONS

FREQUENCY RESPONSE¹ (+/- 3 dB)	51 Hz - 18 kHz (-10 dB @ 38 Hz) (with screen EQ applied)
POWER HANDLING²	600 watts (57V) 2400 watts peak
MAXIMUM SPL³	126 dB Continuous 132 dB Peak
SENSITIVITY⁴	100 dB
COVERAGE	Horizontal: 90° +10°/-40° 1.2 kHz - 20 kHz Vertical: 50° +/- 15° 2.5 kHz - 20 kHz
DIRECTIVITY INDEX (DI)	8 dB +/- 2 dB 500 Hz - 20 kHz
DIRECTIVITY FACTOR (Q)	6.3
NOMINAL IMPEDANCE	8 ohms, minimum 5.5 ohms @ 90 Hz
CROSSOVER FREQUENCY	750 Hz
COMPONENTS	One K-48-ST 15" woofer One K-691 titanium diaphragm compression driver on a K-510 horn
INPUT CONNECTION	Two point barrier strip
SUSPENSION POINTS	Sixteen 3/8"-16 thread mounting points 4 top, 4 bottom, 4 each side
ENCLOSURE TYPE	Bass-reflex
ENCLOSURE MATERIAL	3/4" (19mm) 7-Ply Birch Plywood Cabinet 1" (25.4mm) MDF Baffle
HEIGHT	39" (99.1cm)
WIDTH	19.8" (50.29cm) front 6.8" (17.27cm) rear
DEPTH	16" (40.04cm)
WEIGHT	78 lbs. (35.5 kg)
FINISHES	Black
ACCESSORIES	KI-398 Side-Plate Mounting Kit (PN: 1061616)

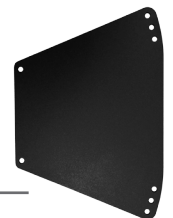
¹ 3M, Half-space anechoic

² AES standard, continuous pink noise, 6dB peaks

³ Calculated at 1M half-spaced at power handling power input

⁴ SPL at 1M, half-spaced anechoic with 2.83 volts input

ALSO AVAILABLE SIDE-PLATE MOUNTING KIT



KI-398-RGL

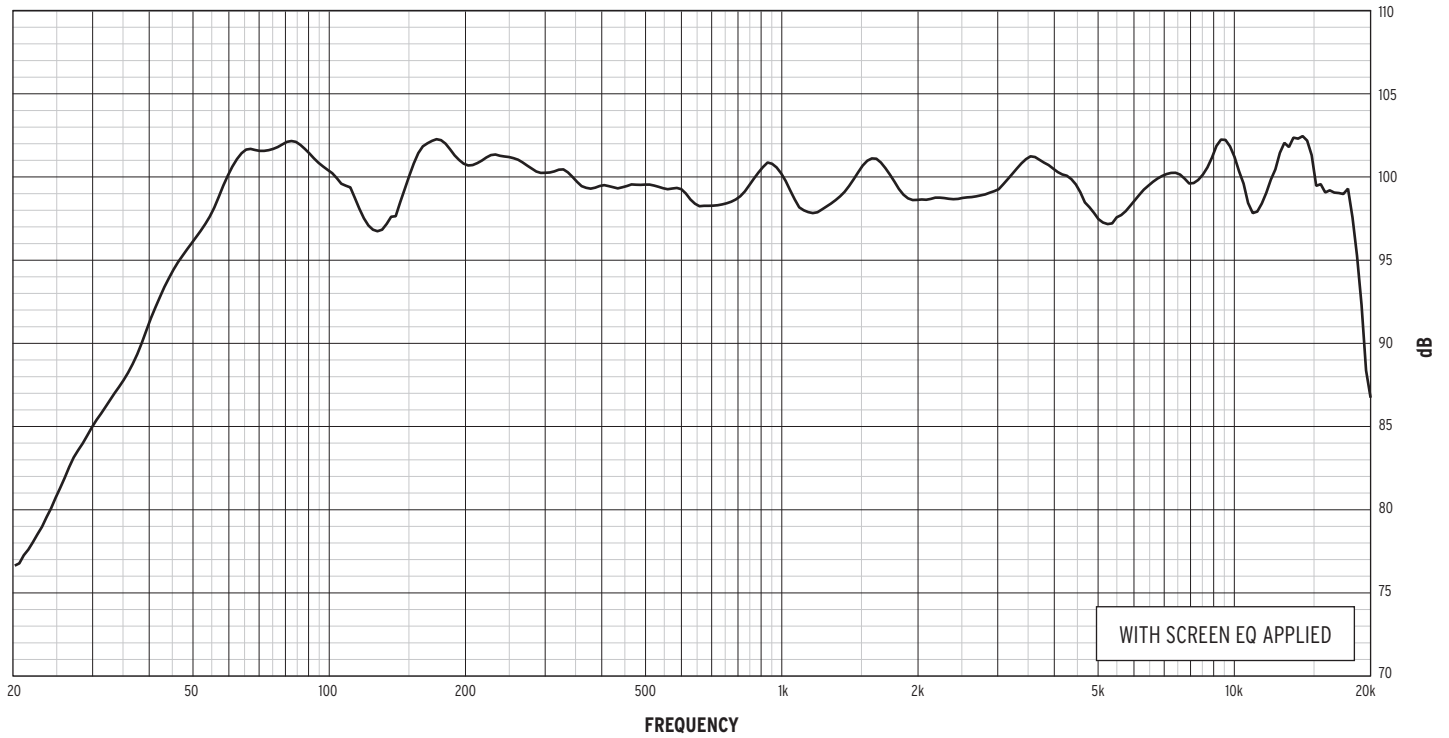
HIGH OUTPUT 2-WAY VERTICAL LINE ARRAY SYSTEM



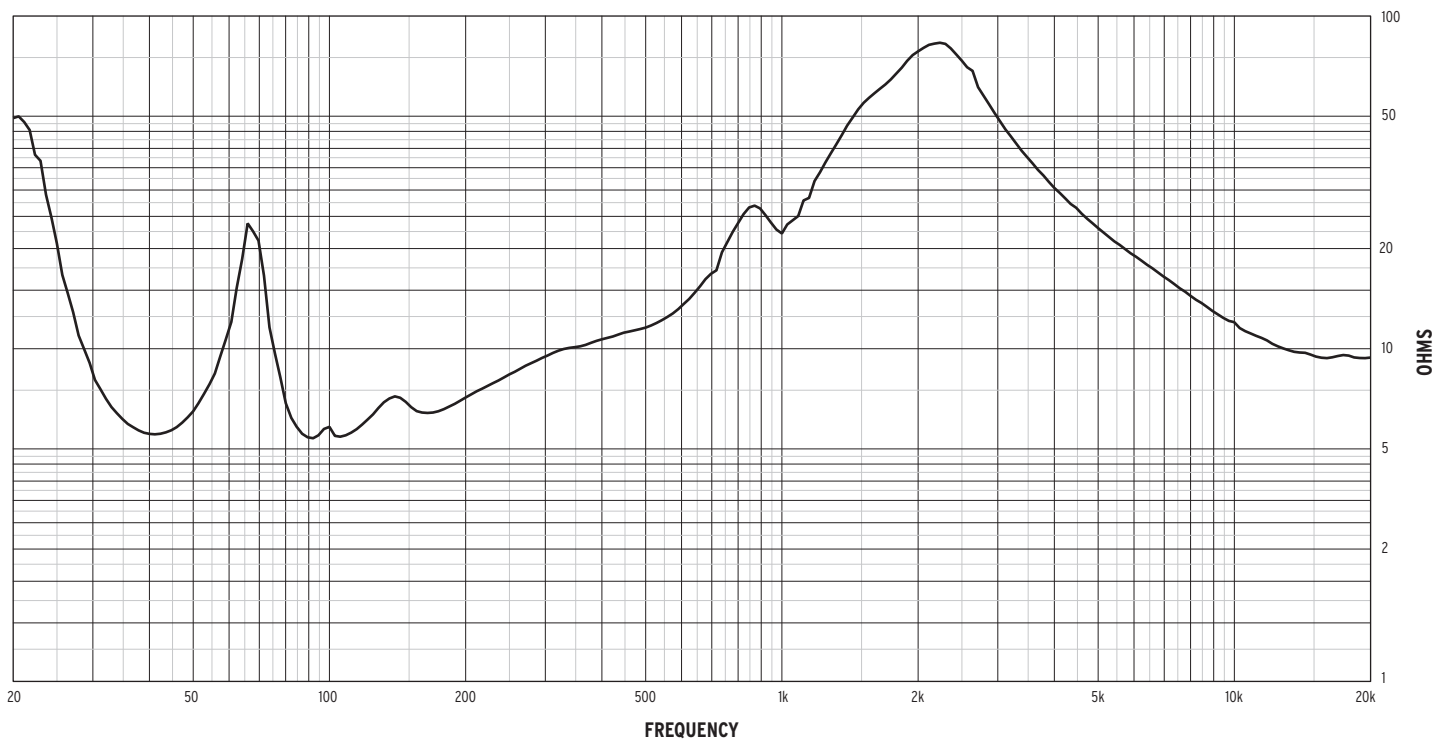
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FREQUENCY RESPONSE



IMPEDANCE



KI-398-RGL

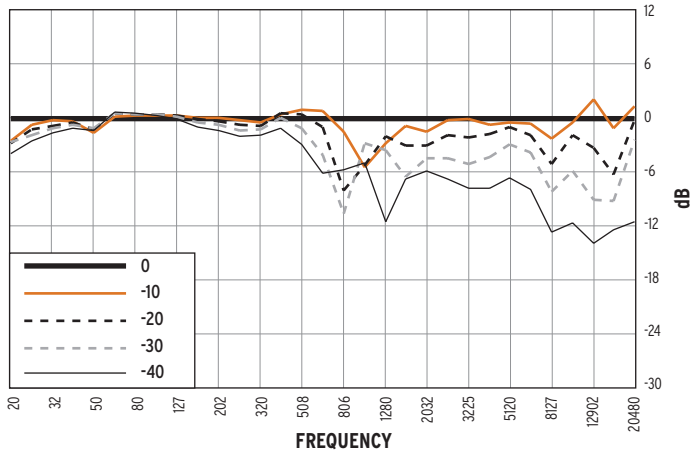
HIGH OUTPUT 2-WAY VERTICAL LINE ARRAY SYSTEM



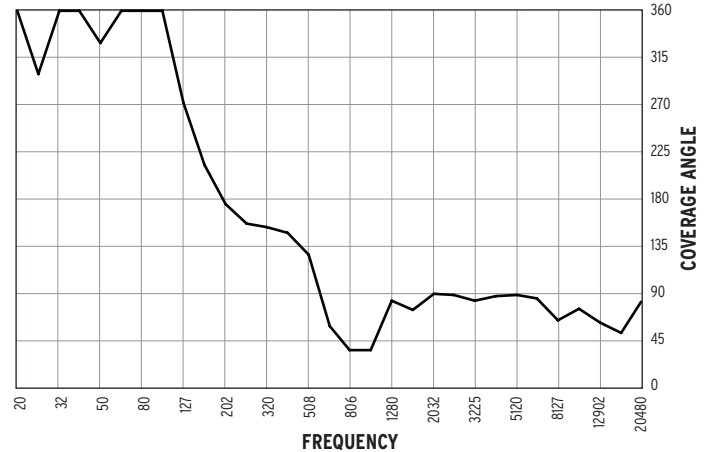
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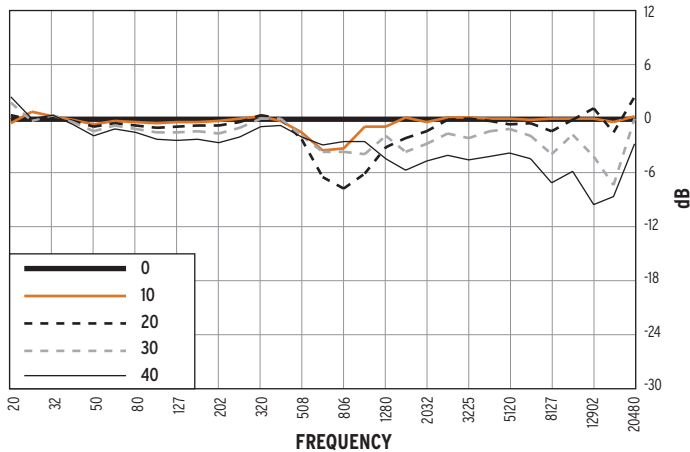
HORIZONTAL OFF AXIS TRANSFER FUNCTION LEFT



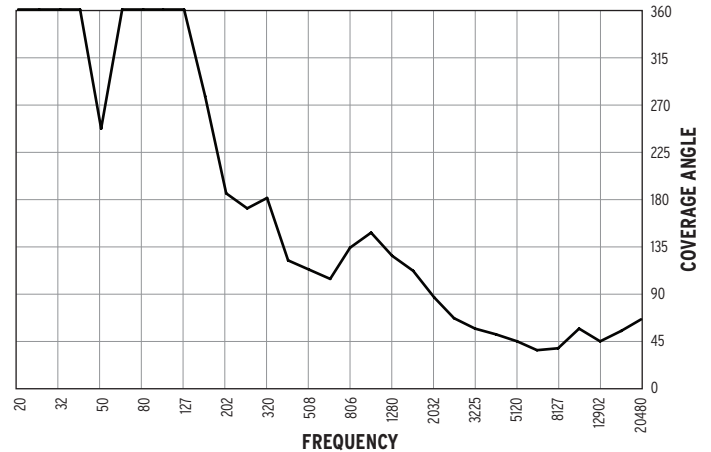
HORIZONTAL COVERAGE (-6dB)



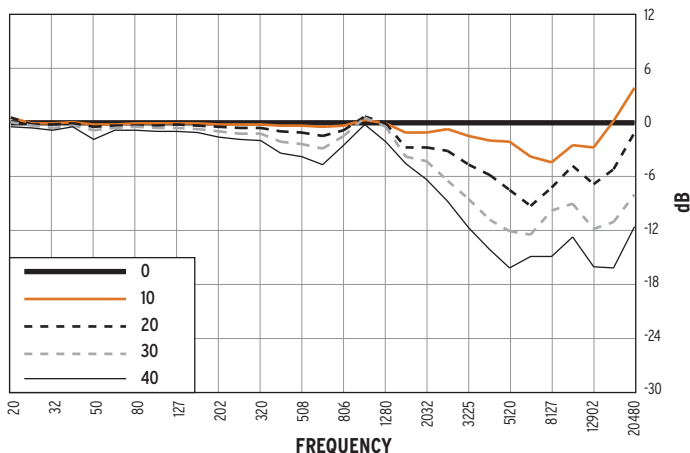
HORIZONTAL OFF AXIS TRANSFER FUNCTION RIGHT



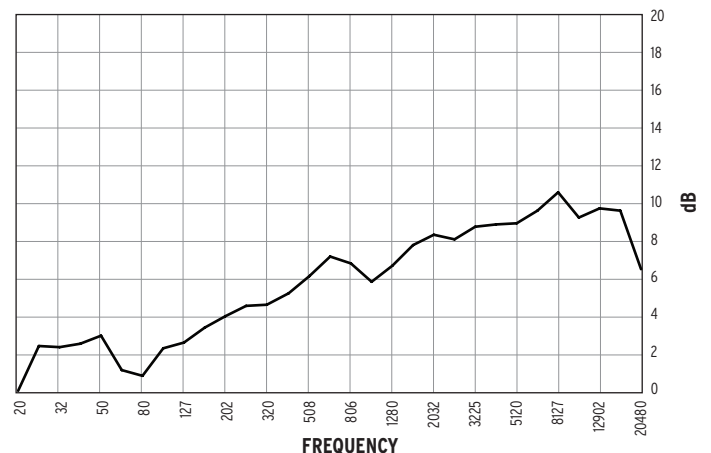
VERTICAL COVERAGE (-6dB)



VERTICAL OFF AXIS TRANSFER FUNCTION



DIRECTIVITY INDEX



KI-398-RGL

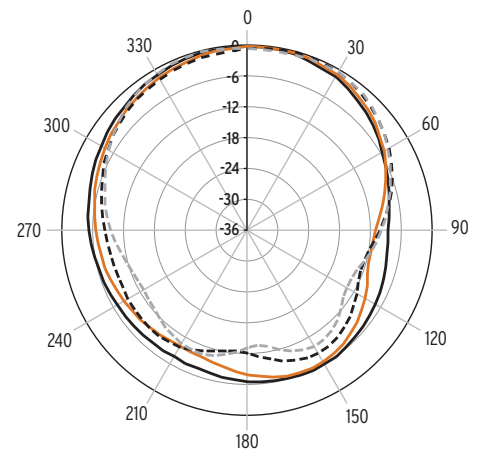
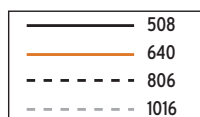
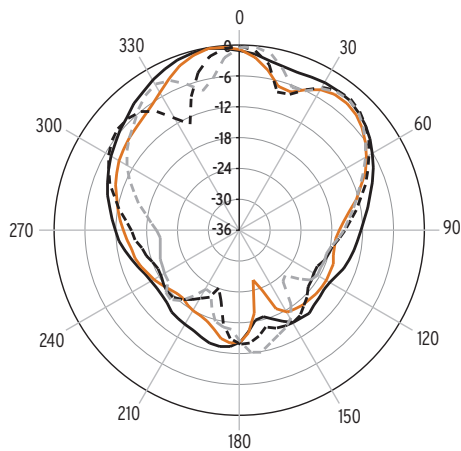
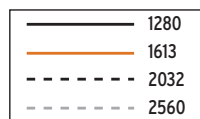
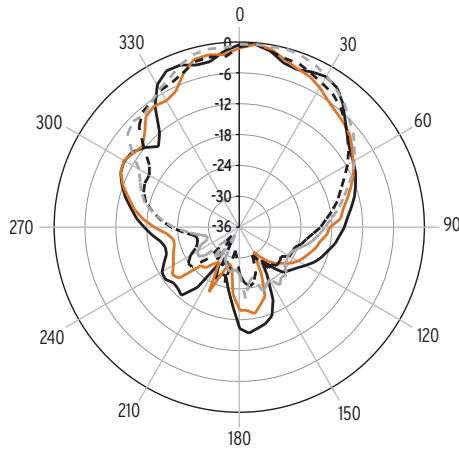
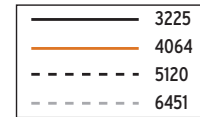
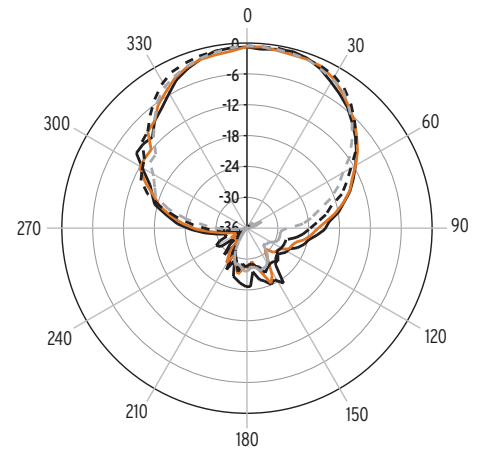
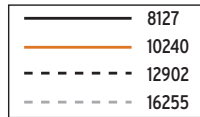
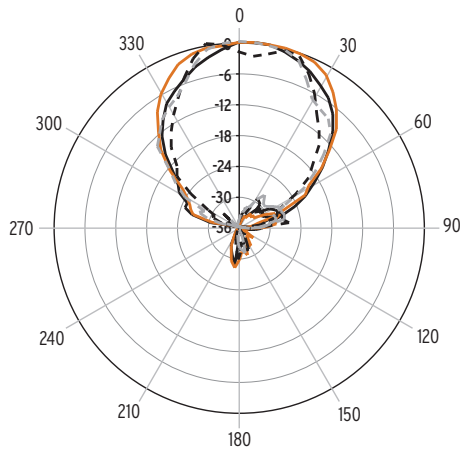
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HORIZONTAL 1/3 OCTAVE POLARS



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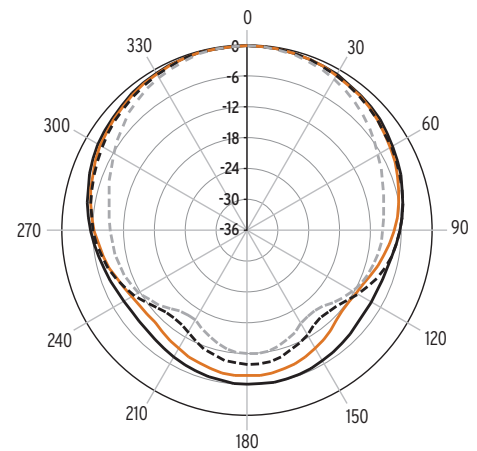
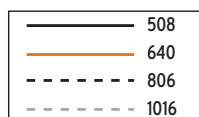
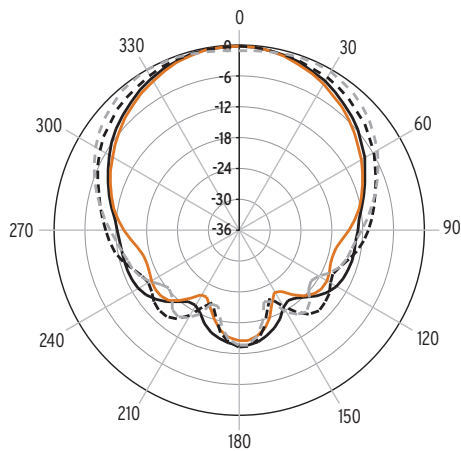
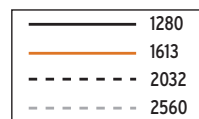
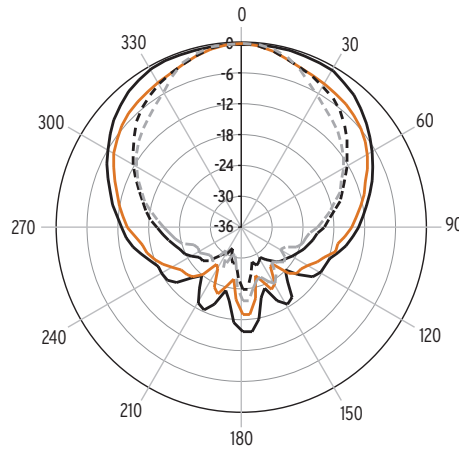
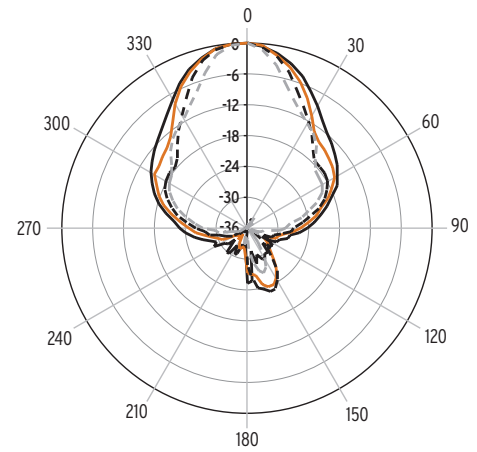
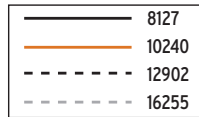
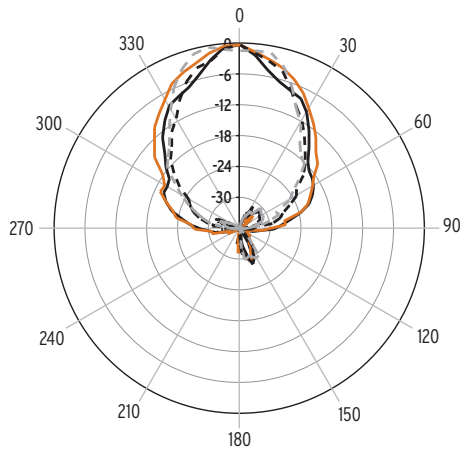
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VERTICAL 1/3 OCTAVE POLARS



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ARCHITECTURAL SPECIFICATIONS

The KI-398-RGL two-way professional cinema surround speaker system shall include an 15" (380 mm) K-48-ST low-frequency transducer utilizing a 3" (75 mm) voice coil, 104 ounce (2.95 kg) magnet and motor magnet assembly and a KDE-75-8P 3" (76.2 mm) titanium diaphragm high-frequency 60-ounce (1.70 kg) magnet compression driver mounted on a 90° X 50° injection molded modified Tractrix Horn. Signal shall be applied to the transducers via a full-range frequency-dividing network. The enclosure tuning shall be of a vented design.

Frequency response shall be 51 Hz to 18 kHz, +/- 3 dB, with the -10dBpoint at 38Hz, measured at three meters, half-space anechoic. The high-frequency dispersion angle shall be 90° X 50° nominal. Directivity shall be 8 dB. Sensitivity shall be 100dB SPL, measured at one meter, half-space anechoic, with a 2.83V input. Power handling shall be 600 watts (57 volts), to AES standards, continuous pink noise, 40 Hz to 10 kHz, 6 dB peaks. Calculated maximum continuous output at one meter shall be 126dB SPL. Nominal impedance shall be 8 ohms, with 5.5 ohms minimum at 90 Hz.

The internal passive crossover frequency shall be 750Hz with a slope of 24dB/octave on the low frequency and 24dB/octave on the high- frequency. Signal connections shall be made via a two point barrier strip.

The enclosure panels shall be CNC-fabricated using .75" (19mm) 7-ply natural hardwood plywood, assembled using rabbet and dado joinery. The motorboard baffle shall be 1" (2.54cm) molding grade MDF. Dimensions for the enclosure shall be 39" (99.1 cm) high by 16.0" (40.04 cm) deep by 19.8" (50.2cm) front width and 6.8" (17.2cm) rear width in a symmetrical trapezoidal shape, with both side panels angled at 22.5° Net weight shall be 78 lbs. (35.5kg).

Enclosure flying capability shall be provided via sixteen internal 3/8"-16 thread mounting points, 4 points per panel with additional compatibility with readily available commercial flying hardware.

The system shall be a Klipsch KI-398-RGL loudspeaker.

NEED HELP WITH YOUR PRO SYSTEM DESIGN?

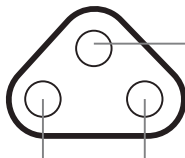
You need to make the best impression, from the initial job quote through the completed installation. We can help choose the best Klipsch speakers for the application and help design a system that unleashes your venue's full potential.

Send us your plans or questions to us at:

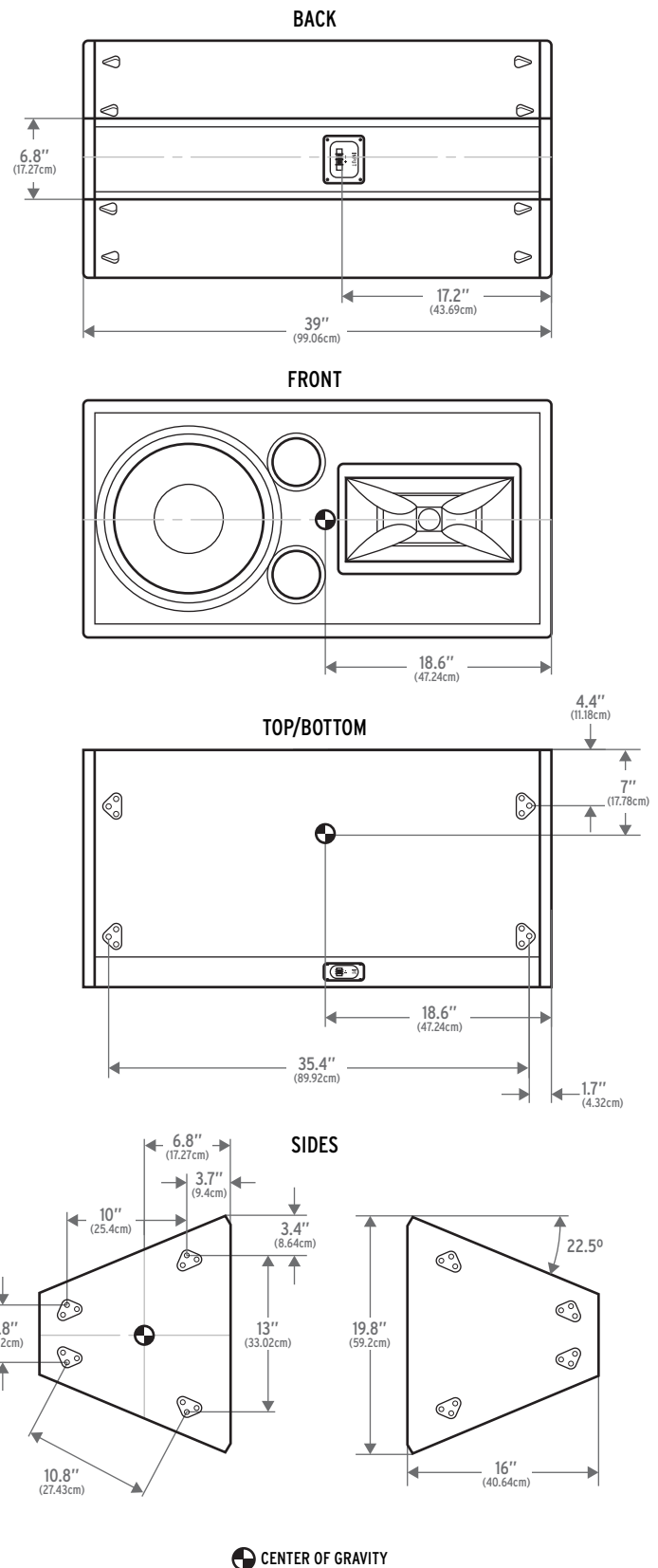
PROSYSTEMDESIGN@KLIPSCH.COM

**NOT A
SUSPENSION
POINT! 8 PLCS**

on each side and
8 PLCS on each top
and bottom panels



3/8"-16 threaded hole
suspension point 4 PLCS
on each side panel and 4
PLCS on top and bottom
panels



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ORDERING INFORMATION

KI-398-RGL

PART NUMBER	MODEL NAME	FINISH	PACKED QUANTITY	DESCRIPTION	UPC
1015031	KI-398-B-RGL	Black	1	Standard 8 ohm speaker	743878027792

KI-398 SIDE-PLATE MOUNTING KIT

PART NUMBER	MODEL NAME	FINISH	PACKED QUANTITY	DESCRIPTION	UPC
1061616	KI-398-RGL PLT Mounting Kit	Black	1	2 Side-Plates plus hardware	NA

KI-398-RGL CARTON DIMENSIONS

HEIGHT	41.5" (105.4cm)
WIDTH	21.0" (53.3cm)
DEPTH	17.0" (43.2cm)

KI-398 SIDE-PLATE MOUNTING KIT CARTON DIMENSIONS

HEIGHT	1" (2.5cm)
WIDTH	18.5" (33.0cm)
DEPTH	12.5" (31.8cm)