

# KPT-683-SW

DUAL 18-INCH SUBWOOFER FOR MEDIUM TO LARGE VENUES



# Klipsch®

KLIPSCH PROFESSIONAL | CINEMA | DATA SHEET

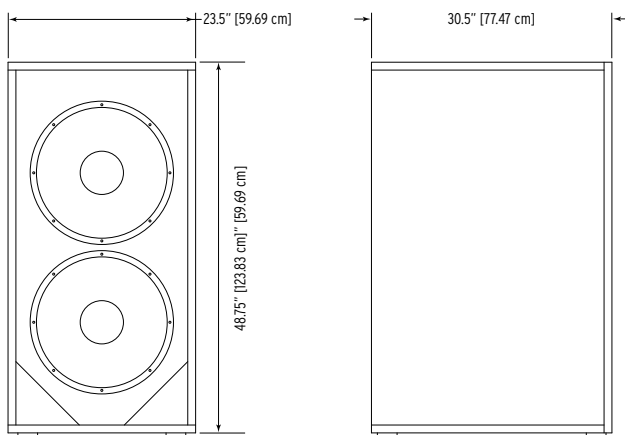


## PRODUCT OVERVIEW

The Klipsch KPT-683-SW is a high-quality cinema subwoofer that features an advanced low-frequency driver design inside a bass-reflex enclosure for smooth response to the lowest audible frequencies.

The system utilizes dual 18-inch drivers that gain the system's amazing 105dB sensitivity through the use of large, geometrically optimized magnet structures and lightweight cones.

Built from the inside out for performance and durability, the KPT-683-SW packs a punch that lets audiences hear as well as feel the impact of edge-of-your-seat entertainment.



## 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 cinema series speaker enclosures are made in the USA, by proud craftsmen in Hope, Arkansas. Just like PWK intended.

## SPECIFICATIONS

<b>FREQUENCY RESPONSE<sup>1</sup></b> (+/- 3 dB)	34Hz-800Hz +/- 3dB (-10dB @ 25Hz)
<b>POWER HANDLING<sup>2</sup></b>	600 watts (65V) per woofer 2400 watts peak per woofer
<b>MAXIMUM SPL<sup>3</sup></b>	132 dB Continuous 138 dB Peak
<b>SENSITIVITY<sup>4</sup></b>	105dB
<b>NOMINAL IMPEDANCE</b>	8 ohms (3.6 min. @ 22Hz) woofers wired in parallel
<b>COMPONENTS</b>	Two K-47-EP2 18" woofers
<b>INPUT CONNECTION</b>	Four point barrier strip
<b>ENCLOSURE MATERIAL</b>	3/4" MDF cabinet 1" MDF motorboard
<b>HEIGHT</b>	48.75" (123.8cm)
<b>WIDTH</b>	23.5" (59.7cm)
<b>DEPTH</b>	30.5" (77.5cm)
<b>WEIGHT</b>	172 lbs. (78.2kg)
<b>ITEM NUMBER</b>	1063397

## RECOMMENDED MINIMUM AMPLIFIER POWER

	KPT-683-SW
<b>AMP POWER RATING</b>	1200 watts into 8 ohms per woofer

- <sup>1</sup> 3M, Half-spaced anechoic
- <sup>2</sup> AES standard, continuous pink noise, 6 dB peaks
- <sup>3</sup> Calculated at 1M half-spaced at power handling power input
- <sup>4</sup> SPL at 1M, half-spaced anechoic with 2.83V input

# KPT-683-SW

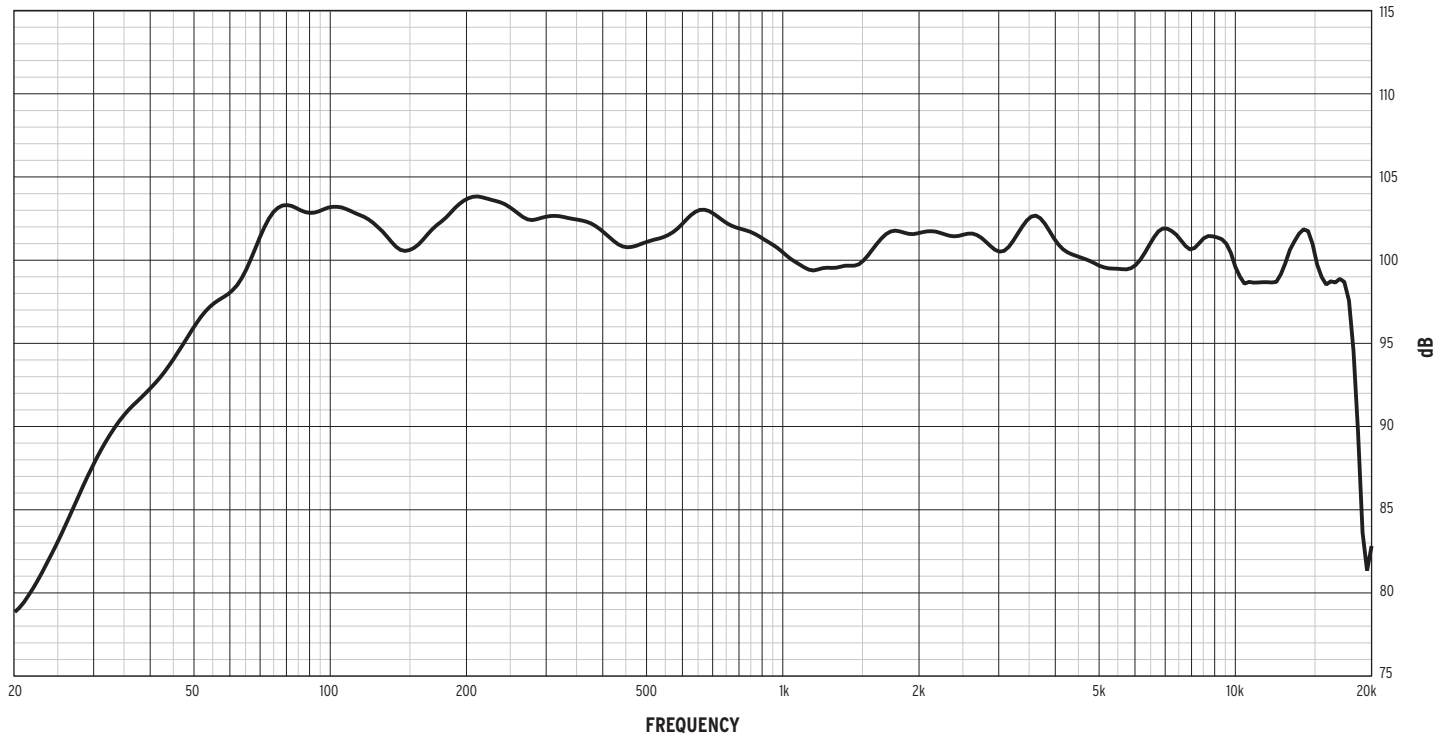
DUAL 18-INCH SUBWOOFER FOR MEDIUM TO LARGE VENUES



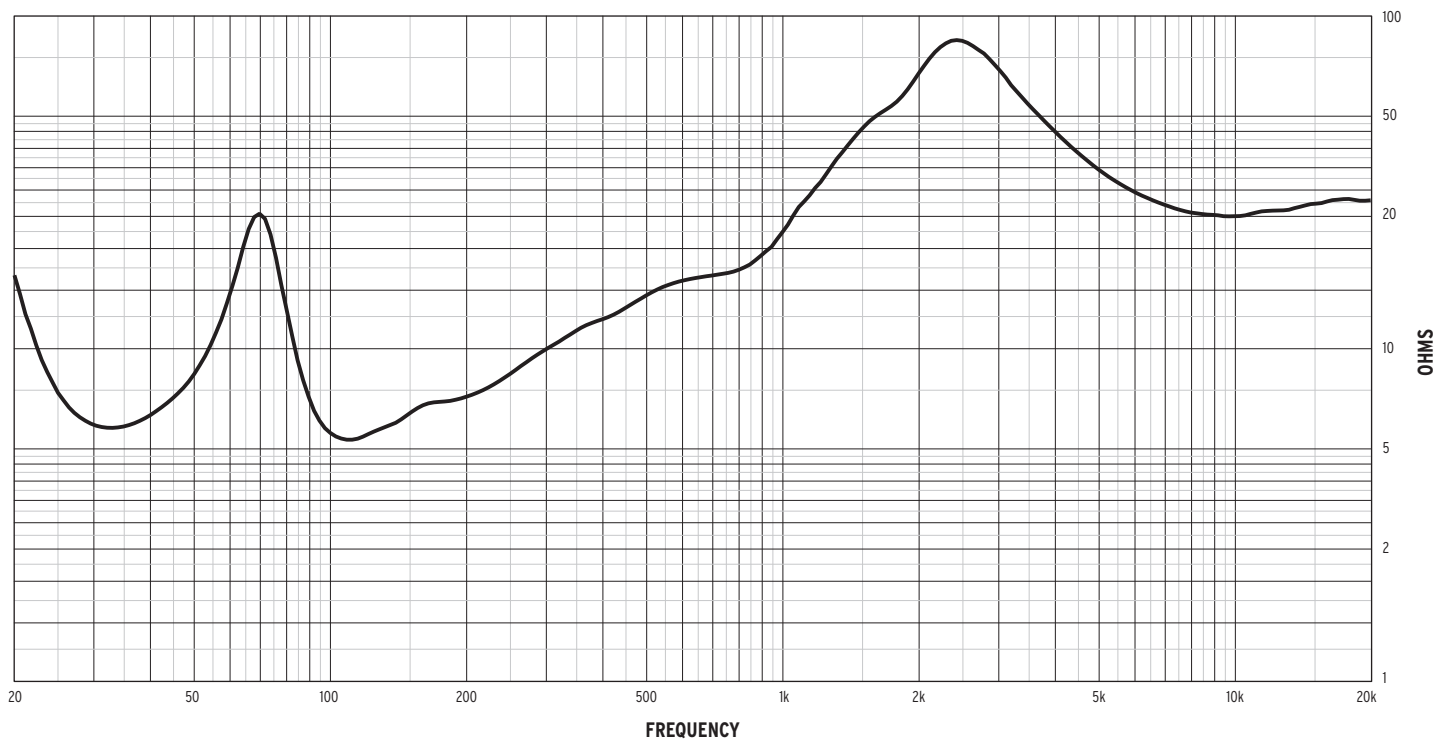
# Klipsch®

KLIPSCH PROFESSIONAL | CINEMA | DATA SHEET

## FREQUENCY RESPONSE



## IMPEDANCE



# KPT-683-SW

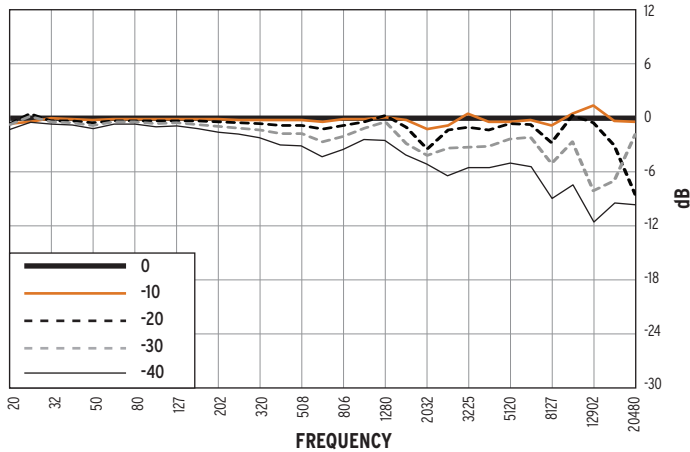
DUAL 18-INCH SUBWOOFER FOR MEDIUM TO LARGE VENUES



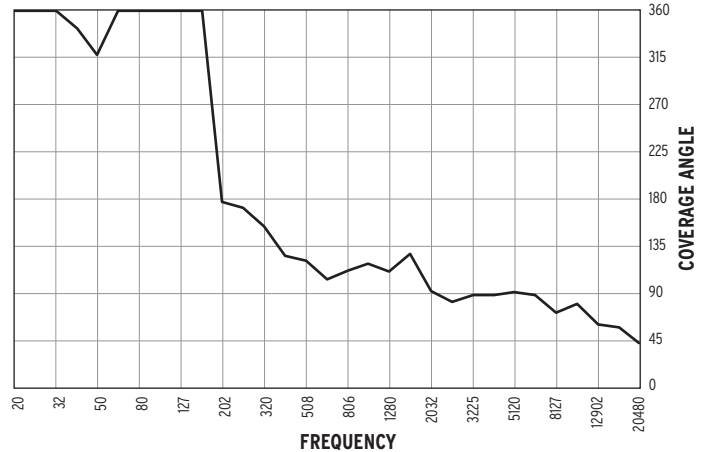
# Klipsch®

KLIPSCH PROFESSIONAL | CINEMA | DATA SHEET

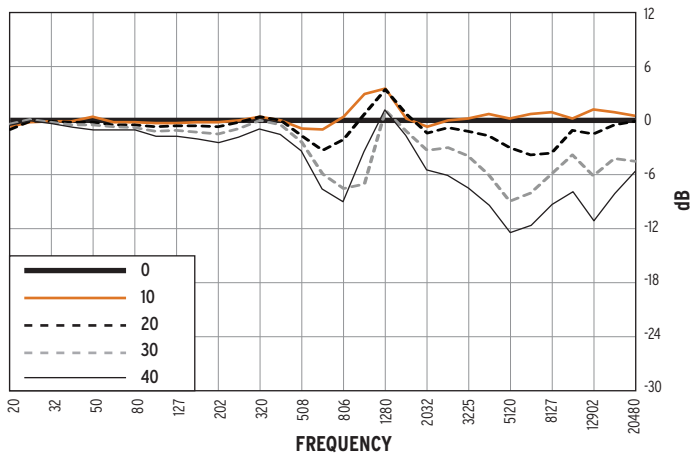
### HORIZONTAL OFF AXIS TRANSFER FUNCTION



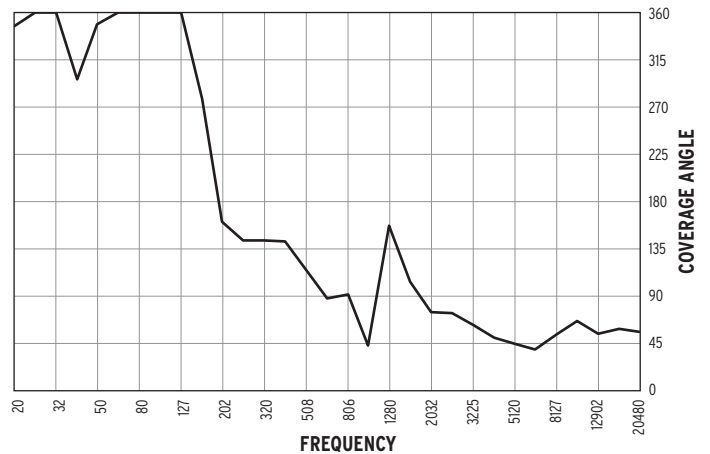
### HORIZONTAL COVERAGE (-6dB)



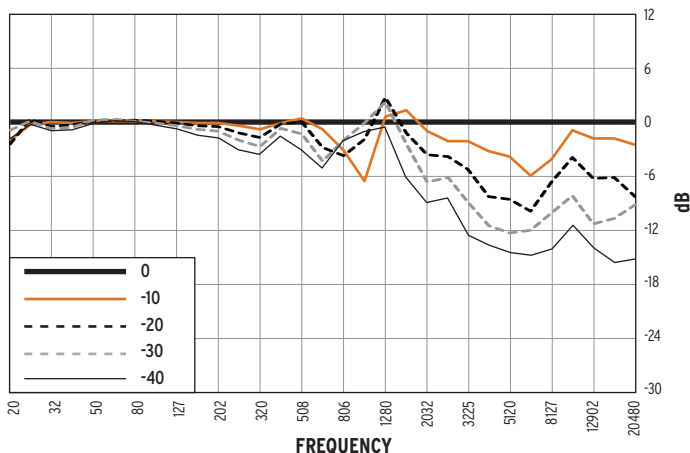
### VERTICAL OFF AXIS TRANSFER FUNCTION UP



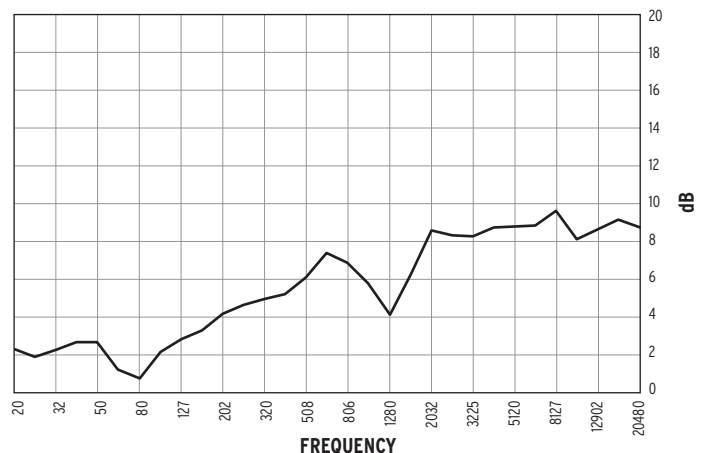
### VERTICAL COVERAGE (-6dB)



### VERTICAL OFF AXIS TRANSFER FUNCTION DOWN



### DIRECTIVITY INDEX



# KPT-683-SW

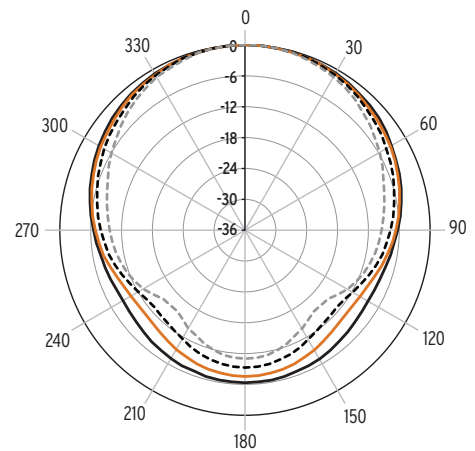
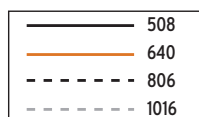
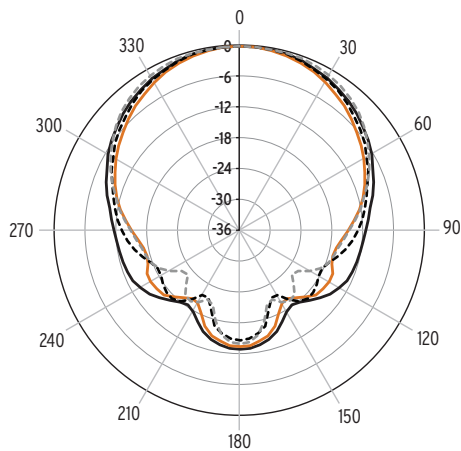
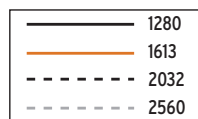
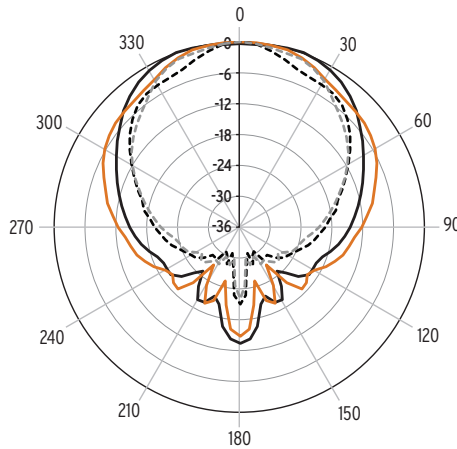
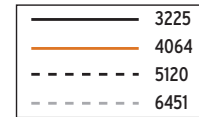
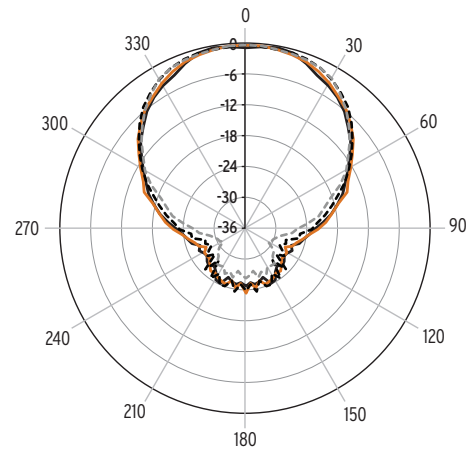
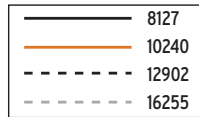
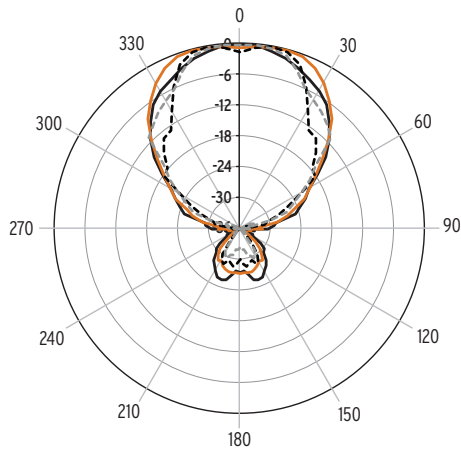
DUAL 18-INCH SUBWOOFER FOR MEDIUM TO LARGE VENUES



# Klipsch

KLIPSCH PROFESSIONAL | CINEMA | DATA SHEET

## HORIZONTAL 1/3 OCTAVE POLARS



# KPT-683-SW

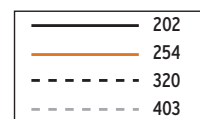
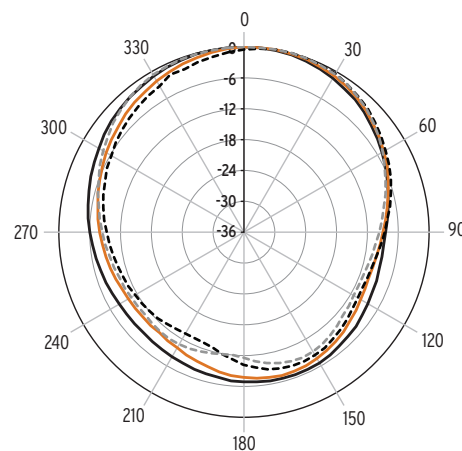
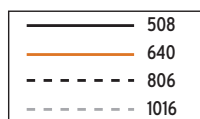
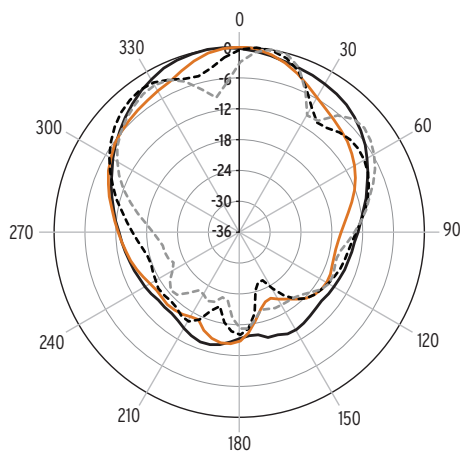
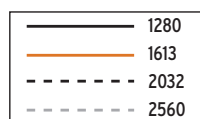
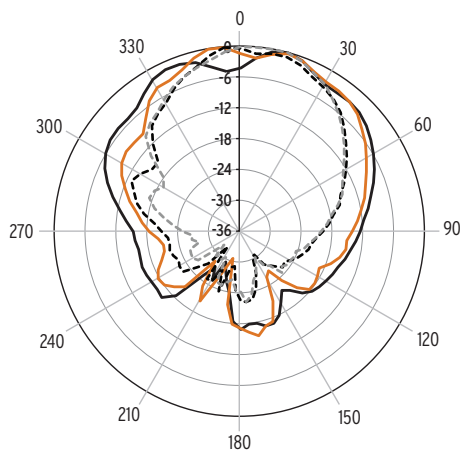
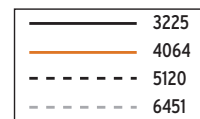
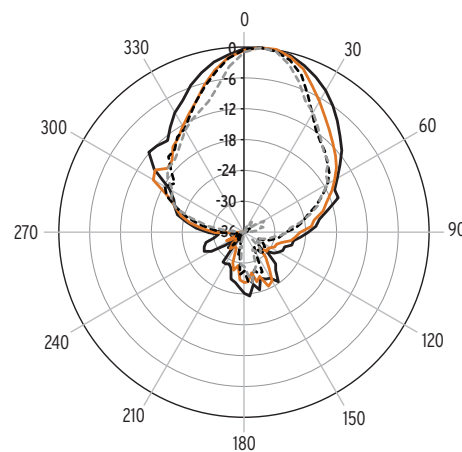
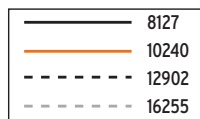
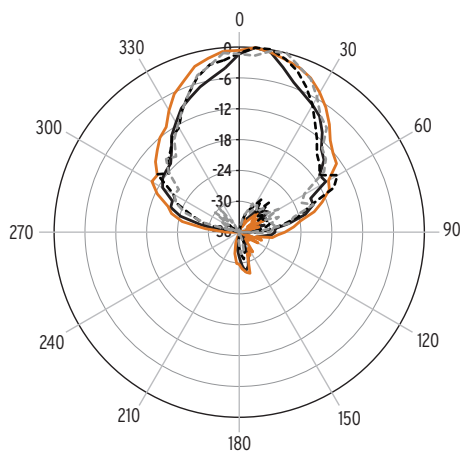
DUAL 18-INCH SUBWOOFER FOR MEDIUM TO LARGE VENUES



**Klipsch**

KLIPSCH PROFESSIONAL | CINEMA | DATA SHEET

## VERTICAL 1/3 OCTAVE POLARS





# KPT-683-SW

DUAL 18-INCH SUBWOOFER FOR MEDIUM TO LARGE VENUES



# Klipsch®

KLIPSCH PROFESSIONAL | CINEMA | DATA SHEET

## ARCHITECTURAL SPECIFICATIONS

The KI-396-SMA-II high power 15" three-way trapezoidal speaker system shall include a 15" (381mm) K-48-ST low-frequency transducer utilizing a 3" (76.2mm) voice coil, 104-ounce (2.95kg) magnet and motor magnet assembly, a High-frequency 3" (76.2mm) titanium diaphragm 64-ounce (1.82kg) magnet compression driver mounted on a 90° X 60° heavy-duty, injection molded modified Tractrix Horn. Signal shall be applied to the transducers via full-range internal frequency-dividing network. The enclosure tuning shall be of a vented design.

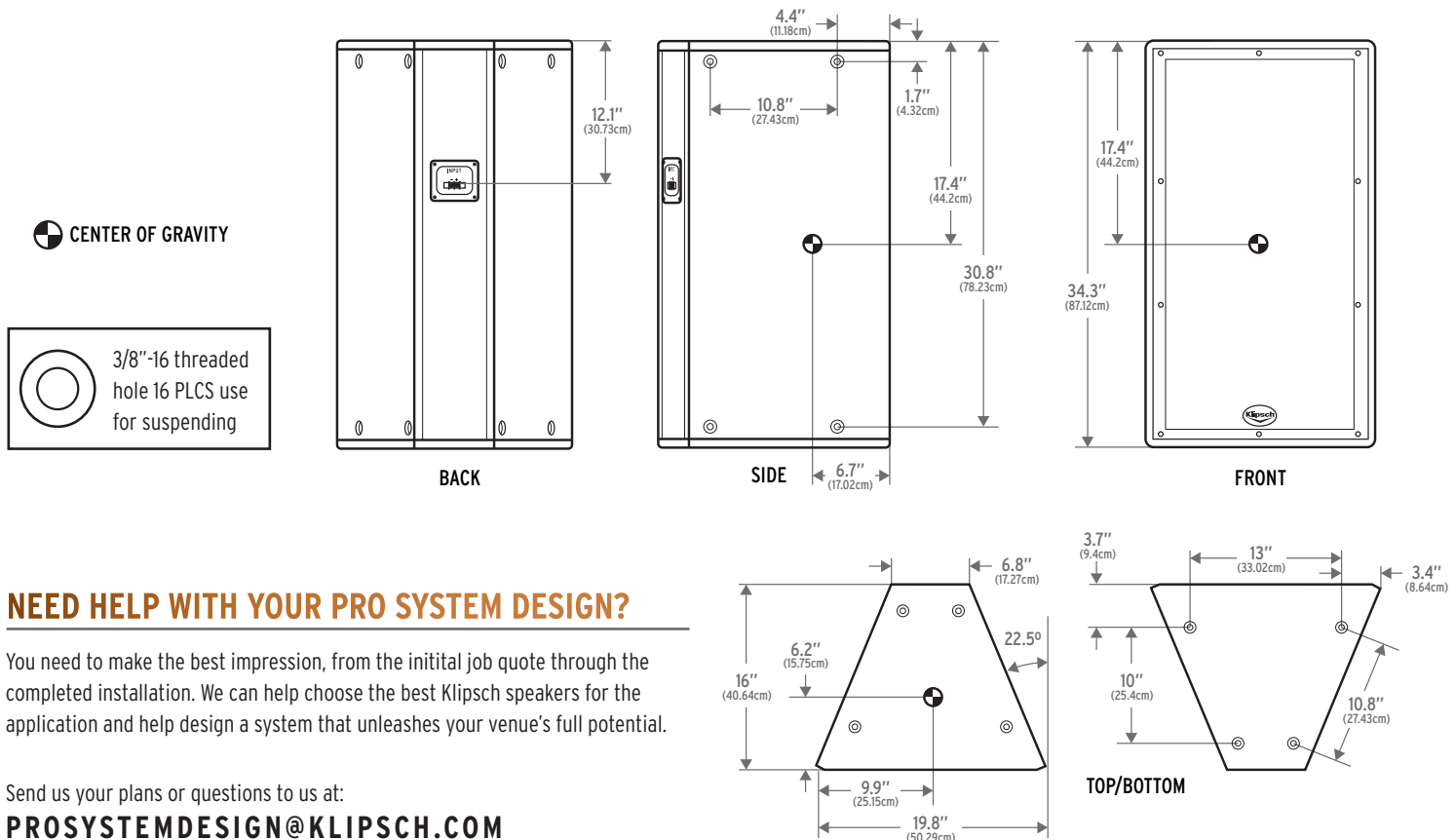
Frequency response shall be 60Hz to 18kHz, +/- 3dB, with the -10dB point at 35Hz, measured at three meters, half-space anechoic. The dispersion angle shall be 90° X 60° nominal. Directivity Index shall be 8dB. Sensitivity shall be 101dB SPL, measured at one meter, half-space anechoic, with a 2.83V input. Power handling shall be 600 watts (56 volts), to AES standards, continuous pink noise, 40Hz to 10kHz, 6dB peaks. Calculated maximum continuous output at one meter shall be 127dB SPL. Nominal impedance shall be 8 ohms, with 5.1 ohms minimum at 112Hz. The internal passive crossover frequencies shall be 1kHz, with slopes of 12dB/octave on the low frequency, and 18dB/octave on the high frequency. Signal connections shall be made via a two-point barrier strip.

The enclosure panels shall be CNC-fabricated, 3/4" 7-ply birch plywood, assembled using rabbet and dado joinery. The motorboard baffle shall be 1" (2.54cm) medium density fiberboard. Dimensions for the enclosure shall be 34.3" (87.12cm) high by 16.0" (40.64cm) deep by 19.8" (50.29cm) front width and 6.8" (17.27cm) rear width in a symmetrical trapezoidal shape, with both side panels angled at 22.5°. Net weight shall be 76 lbs. (34.55kg). The enclosure will have a straight metal perforated grille for structural integrity and protection of the transducers from impact and tampering. Enclosure flying capability shall be provided via sixteen internal 3/8" 16-thread mounting points, four per top, bottom and both sides.

Enclosure bracket mounting is provided with one 3/8"-16 threaded mount point on top and bottom panels.

The enclosure shall be coated with lacquer-based primer and lacquer-based texture, with a black or white finish. The enclosure shall also be available unfinished in raw birch.

The system shall be a Klipsch KI-396-SMA-II 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**

# KPT-683-SW

DUAL 18-INCH SUBWOOFER FOR MEDIUM TO LARGE VENUES



KLIPSCH PROFESSIONAL | CINEMA | DATA SHEET

## ORDERING INFORMATION

### KI-396-SMA-II

PART NUMBER	MODEL NAME	FINISH	PACKED QUANTITY	DESCRIPTION	UPC
1062027	KI-396-B-SMA-II	Black	1	Standard 8 ohm speaker	743878028003
1062028	KI-396-W-SMA-II	White	1	Standard 8 ohm speaker	743878029116
1062029	KI-396-R-SMA-II	Raw Birch	1	Standard 8 ohm speaker	743878029109

### KI-396-SMA-II CARTON DIMENSIONS

HEIGHT	37" (94.0 cm)
WIDTH	22" (55.8 cm)
DEPTH	18.9" (48.0 cm)