

# DATA SHEET

# SW818A SUBWOOFER SPEAKER SYSTEM

- Recreational Facilities
- Transportation Terminals
- Convention Centers
- Correctional Facilities
- Warehouse/Factories
- Community Halls
- Gymnasiums
- Sports Arenas
- Shopping Malls
- Super Stores
- Restaurants
- Theatres
- Schools
- Churches

**Octasound®**  
S O U N D A B O V E A L L



## HIGH SENSITIVITY - 98 dB PER WATT PER METER

The KDM SW818A is extremely sensitive with a Sound Pressure Level (S.P.L.) of 98 dB per watt at 1 meter, hence very little amplifier power is required to obtain the required sound pressure levels. At maximum RMS input power the KDM SW818A will produce 122 dB S.P.L. at 1 meter.

## HIGH POWER HANDLING - 300 WATTS RMS / 600 WATTS PEAK

The KDM SW818A can withstand input power of 300 watts RMS. The KDM SW818A also contains a built-in, self-resetting thermal protective circuit. This protects the low frequency subwoofer from excessive and distorted (10% T.H.D.) input levels.

## INTERNAL CROSSOVER - FOR SUBWOOFER AND EXTERNAL SPEAKER SYSTEMS

The KDM SW818A contains a low pass and high pass 135 Hz internal crossover that utilizes high quality capacitors & inductors. The low pass section is 12 dB per octave. The high pass section is 6 dB per octave. An output is provided on the SW818A from the high pass section that makes it easy to add full range speaker systems without additional amplifiers and electronic crossovers. The recommended full range speaker systems are the KDM SP840A, KDM SP820A, KDM SP800A, SP540A, SP520A, or other full range speaker systems.

## SOLID LOW FREQUENCY RESPONSE - TO ENHANCE "VOICE AND MUSIC" SOUND SYSTEMS

The KDM SW818A is a full low frequency (30 Hz to 135 Hz) Central Speaker System. The KDM SW818A "Thiele" aligned tuned port enclosure contains a highly efficient 18" subwoofer with a large 95 ounce magnet and a 3" 2 Layer Voice Coil. The frequency spectrum of the subwoofer is determined by an internal crossover network that is optimized to maximize performance. This combination ensures full and solid low frequency reproduction from an extremely compact 4 cubic foot subwoofer central speaker system.

## SMALL, COMPACT & RUGGED - 16 INCHES HIGH / 80 LBS

The KDM SW818A is only 16 inches (40.6 cm) high and weighs 80 lbs (36.3 kg). The KDM SW818A can be installed in low ceiling areas and close to lights without casting shadows. The low weight permits suspension using readily available hardware such as closed link chains, wire rope etc. The combination of small dimensions and low weight permits the KDM SW818A to be shipped inexpensively..



## Technical Specifications

Frequency Response:	30 Hz to 135 Hz.
Optimum Power:	120 to 250 watts RMS total.
Power Handling:	300 watts RMS total, 600 watts peak, (Total Harmonic Distortion less than 10%).
Impedance:	8 ohms nominal.
Dispersion:	Omnidirectional.
Sensitivity:	98 dB/watt/meter on axis,
Maximum S.P.L.:	122 dB RMS / 125 dB Peak at 1 meter.

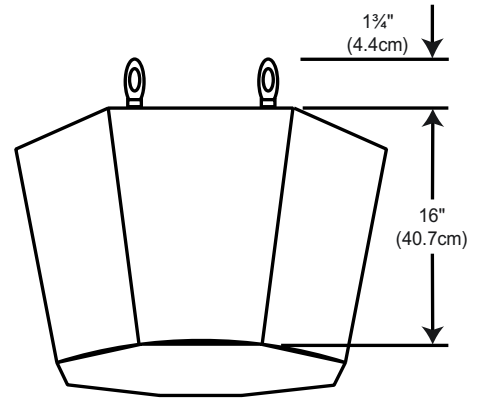
*Octasound Speakers and Sound System Modules are manufactured by the award winning company KDM Electronics Inc. With over 25 years of experience, KDM can design a turn-key sound system to meet or exceed your sound requirements.*

**by KDM Electronics**

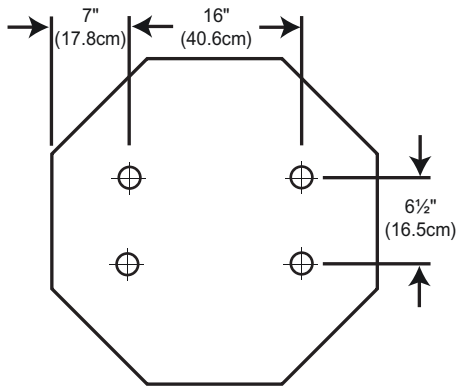
# SW818A SUBWOOFER SPEAKER SYSTEM

## Physical Specifications

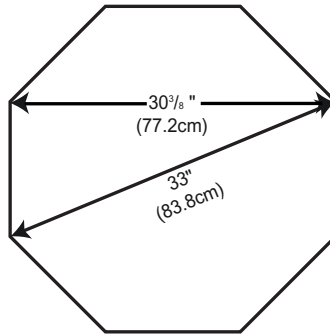
Temperature Range:	-10°C to 55°C (14°F to 131°F)
Humidity Range:	0% to 80% Non Condensing
Dimensions:	See Diagrams (Not to Scale, Tolerance ±1/4")
Weight:	80 lbs (36.3 kg)
Material:	Exterior Treated Wood Composite Panel
Mounting Hardware:	Four 1½" Eye Nuts, ¾" I.D. Eye ¼ x 20 Thread
Shipping Weight:	110 lbs (49.9 kg)
Shipping Dimension:	20" (50.8cm) Square, by 14" (35.6cm) high



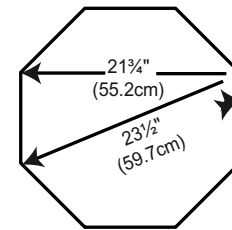
Side View



Mounting Hardware Dimensions



Top View



Bottom View

## Architects and Engineers Specifications

The loudspeaker shall be an octagonal shaped speaker containing a 18" (457 mm) diameter, waterproof treated, low frequency subwoofer driver, with a 3" (76 mm), 2 layer, 8 ohm voice coil, and a magnet weight of 95 ounces (2.69 kg) minimum. The low frequency subwoofer driver shall be contained within a tuned port Thiele aligned bass enclosure. The sensitivity shall be 98 dB per watt at 1 meter. The overall speaker system shall contain one crossover network that separates the low and high frequency spectrum at a crossover point of 135 Hz ±15%. The low pass section shall be 12 dB per octave and the high pass section shall be 6 dB per octave. A separate output shall be provided from the high pass section that permits external full range speaker systems to be connected to the subwoofer without additional amplifiers and electronic crossovers. The internal crossover shall have a built in thermal protective circuit to prevent damage from occurring at power levels up to 600 watts of peak power. The overall speaker system shall be capable of withstanding power levels up to 300 watts RMS, with a total harmonic distortion of less than 10%. The total impedance of the speaker system shall be 8 ohms nominal. The speaker shall contain a perforated metal speaker grill to protect the bass speaker. The enclosure shall be manufactured from ¾" (19 cm) moisture resistant wood composite with all joints secured with waterproof glues. A sealant, primer and durable industrial textured finish shall be applied to the enclosure. All exposed metal must be aluminum, stainless steel, plated or painted. Four 1½ inch eye nuts shall be provided for mounting. The complete speaker shall weigh a maximum of 80 lbs. (36.3 kg), with the following maximum dimensions: top width 33" (83.8 cm), bottom width 23 ½" (59.7 cm) and height 16" (40.6 cm) + 1¾" (4.4 cm) for mounting hardware.

**The loudspeaker shall be KDM Electronics Incorporated Subwoofer Model SW818A.**

## Ordering Information

**SW818A - XX** (where **XX** specifies color). **WH** = White Low Sheen Splatter Finish (Standard)

Other colors and Veneers available upon request. Example: **BK** = Black, **OV** = Oak Veneer

KDM Electronics Incorporated reserves the right at any time to make changes in product design, components and specifications, as may be warranted by progress in technology.



KDM Electronics Inc.  
931 Progress Avenue, Unit #12  
Toronto, Ontario  
Canada, M1G 3V5

Tel: (416) 439-7158  
Toll Free: 1-800-567-6282  
Fax: (416) 439-7232  
Web Site: [www.octasound.com](http://www.octasound.com)  
E-Mail: [kdm@octasound.com](mailto:kdm@octasound.com)

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