



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

DATA SHEET



SP540A MULTI-LOCATION SPEAKER SYSTEM

FULL FIDELITY - FOR BOTH VOICE AND MUSIC

Full range (40 Hz to 15 kHz) Multi-Location Speaker System.

Tuned port enclosure with a high-efficiency 12" woofer matched to two compression horns and drivers.
Small size and low weight for convenient installation and low shipping cost

BUILT TO LAST

High impact polyurethane finish
New impact resistant HDPE grille
Stainless Steel hardware, screws and bolt assemblies

HIGH SENSITIVITY - 106 dB/W/m

Extremely efficient – rated at 106 dB/W/m
Produces high SPLs with low amplifier power
Maximum SPL – 129dB with 200 W RMS input.

HIGH POWER HANDLING - 200 W RMS / 400 W PEAK

Handles input power of 200 watts RMS
Built-in, self-resetting polyswitch protective circuit protects high frequency drivers
from excessive power and distorted inputs (>10% THD)

WIDE COVERAGE AREA – 180° X 120°

Covers 180° Horizontally by 120° Vertically
Wide dispersion characteristics enable a single SP540A to cover a large area.

COMPACT SIZE - 16 INCHES HIGH x 19 INCHES DEEP / 82 LBS

The Octasound SP540A is only 16 inches (40.6 cm) high and weighs just 82 lbs (37.2 kg).
Can be installed in low ceiling areas and close to lights without casting significant shadows.
Low weight permits suspension using readily available hardware such as closed link chains, wire rope etc.
Small size and low weight enables convenient installation and low shipping cost

TECHNICAL SPECIFICATIONS

Frequency Response: 40 Hz to 15 kHz \pm 10 dB (on axis); 50 Hz to 12 kHz \pm 6 dB (on axis)
Optimum Power: 50 to 120 W RMS total
Power Handling: 200 W RMS total, 400 W peak, (THD less than 10%)
Impedance: 8 ohms nominal
Dispersion: 180° Horizontal, 120° Vertical \pm 6 dB 100 Hz to 10 kHz
Sensitivity: 106 dB/W/m on axis, pink noise 100 Hz to 10 kHz averaged
Maximum SPL: 129 dB RMS / 132 dB Peak at 1 meter

For more detailed info contact:
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by **KDM**

SP540A MULTI-LOCATION SPEAKER SYSTEM

PHYSICAL SPECIFICATIONS

Temperature Range: -20°C to 55°C (-4°F to 131°F)

Humidity Range: 0% to 100% Non-Condensing

Dimensions: 16" H x 33" W See Diagrams (Not to Scale, Tolerance $\pm 1/4"$)

Weight: 105 lbs (47.2 kg)

Material: Moisture Resistant MDF, Polyurethane Elastomer Finish

Mounting Hardware: Four 1 1/2" Eye Nuts, 3/4" I.D. Eye 1/4 x 20 Thread

Shipping Weight: 145 lbs (65.8 kg)

Shipping Dimension: 32" (81.3cm) Square, by 24" (61cm) high

ARCHITECTS AND ENGINEERS SPECIFICATIONS

The loudspeaker shall be a two-way speaker system containing a 12" diameter, low frequency driver, with a 3" - 8 ohm voice coil and 80 ounce magnet. The speaker shall also enclose two high frequency 9" x 9" wide dispersion exponential compression horns & drivers with 2" voice coils, 1" throat diameter and a magnet weight of 34 ounces. The speaker sensitivity shall be 106 dB per watt per meter and contain a crossover point of 2 kHz $\pm 15\%$ complete with thermal protection and with an impedance of 8 ohms. The speaker shall be manufactured from 3/4" wood composite and sealed with an industrial textured finish. Grill shall be plastic and impact resistant. All exposed metal hardware shall be stainless steel or zinc plated. Four 1 1/4 inch eye nuts shall be provided for mounting. The complete speaker shall weigh a maximum of 82 lbs., with the following maximum dimensions: top width 30 3/8", bottom width 21 3/4" and height 16" + 1 3/4" for mounting hardware.

DIMENSIONS

