



SM42T-B



SM42T-W



SM42T-W Back



SM42T-W Back Open

FEATURES

- Compact, Two-Way Loudspeaker Systems for Exceptional Performance in Sound Reinforcement Systems
- Weather-Resistant Construction For Year-round Indoor or Outdoor Use: UV-resistant Talc Impregnated Polypropylene, Injection Molded, Weatherproof Enclosure Powder Coated Aluminum Grilles and all Brass Hardware Inserts
- 100HR Salt Spray Test Per ASTM B117
- Color Matched Heavy-duty Zinc Chromate Plated & Powder Coated "C" Bracket (Included)
- Highly Efficient 4" Polypropylene Woofer
- 1" Ferrofluid™ Cooled Dome Tweeter
- Atlas Sound TRX WAVEGUIDE™— A Constant Directivity Style High Frequency Wave Guide System Provides Accurate, Even High Frequency Coverage
- Atlas Sound POLYGUARD™ High Frequency Circuit Diverts Damaging Transient Signals to Protect the Tweeter
- Screwdriver Adjustable 16-Watt 70.7V/100V Transformer for Distributed Sound Applications (may be bypassed for 8-ohm operation via tap selector switch)
- All 1/4"-20 Hardware Inserts Allow Easy Integration of "Off The Shelf" Security Hardware
- OMNIMOUNT™ 10 Series Compatible
- Available in Black or White
- Five-Year Warranty

APPLICATIONS

Use surface-mount Atlas Sound SM42T Series loudspeaker systems for commercial, professional and residential applications or where high-fidelity sound and weather-resistance is desired. Full-range frequency response makes these systems ideal for indoor and outdoor installation, in monaural and stereo foreground or background music systems, and for applications in boutiques/shops, restaurants/cafes, corporate AV applications and houses of worship. Multi-position, C-shaped mounting bracket and rugged construction provide optimum installation flexibility and assurance of long-term service.

GENERAL DESCRIPTION

Environment-resistant SM Series loudspeaker systems offer quality sound reproduction and contemporary styling in a compact enclosure. System components consist of a highly efficient woofer section and Ferrofluid™ cooled mylar film high frequency device. Vocal and musical clarity is optimized by the mathematically conceived, advanced design of the Atlas Sound TRX Control WaveGuide™ high frequency director. This design provides smooth, even sound coverage (90°H x 90°V). The high frequency section is symmetrical, for equal coverage in both vertical and horizontal cabinet mounting positions. High frequency component protection is provided by the Atlas Sound Poly Guard™ protection circuit. Both drivers feature low-flux-leakage designs enabling the speaker to be used in close proximity to video monitors. For critical video monitoring applications, a minimum distance of 18 inches from the edge of the loudspeaker to the edge of the CRT is recommended. The SM42T includes an internally mounted, 16 Watt 70.7V/100V line matching transformer with screwdriver adjustable external tap selection for use in distributed sound applications.

To withstand the harshest environments, the new Strategy Series SM42T surface mount loudspeakers are constructed of weather resistant materials: UV-resistant, talc impregnated, polypropylene injection molded cabinets; Polypropylene woofer cones; powder coated aluminum grilles and all brass hardware. The Strategy Series speaker systems include a versatile yet simple C-bracket designed to provide easy vertical or horizontal installation on just about any surface. Care should be taken to ensure that the chosen mounting surface is strong enough to support the SM42T. Care should also be taken to ensure that the SM42T is not exposed to direct precipitation. A 5/8"-27 threaded hole is provided on the C-bracket to allow the SM series speaker to be mounted on any Atlas Sound microphone stand for near-field live sound applications. 2-3/8" OC brass inserts are also provided on the rear of the

PERFORMANCE SPECIFICATIONS

	POWER RATING	IMPEDANCE	FREQ. RESP (±5DB)	SENSITIVITY (1W/1M)	(LF) MAGNET WT.	HF DRIVER	70.7V TAPS (WATTS)	DIMENSIONS LESS BRACKET	WEIGHT LESS BRACKET
SM42T	30 Watts RMS (50 Watts Peak)	8 Ohms (Xfmr Bypassed)	115Hz to 16kHz	88dB	10 oz.	1" (25mm) Dome Tweeter	2, 4, 8, 16	7" (17.78cm) H 5" (12.7cm) W 5" 15/16 (15.03cm) D	1.5 lbs. (.68kg)

Specifications subject to change without notice



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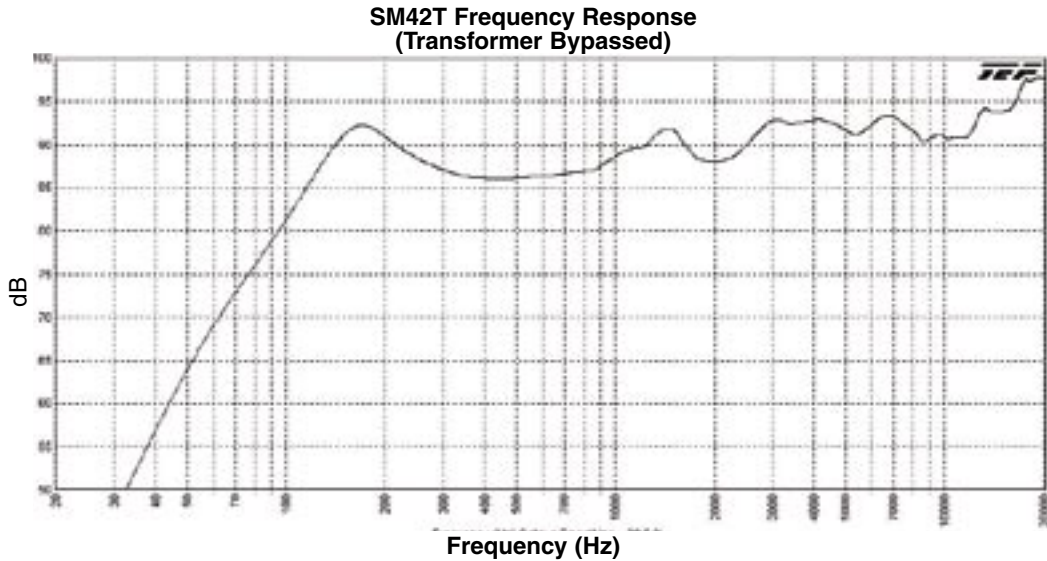
SM42T to accommodate the Atlas Sound SMBALLMOUNT bracket or OMNIMOUNT™ 10 series brackets. All inserts for mounting knobs are standard 1/4"-20 to allow easy substitution of standard "off the shelf" vandal proof torx head or "one-way" hardware. Input connectors include a sealed 2-pole terminal strip capable of accepting up to (2) #14AWG wires. 2, 4, 8, and 16 watt taps are screwdriver selectable

via a sealed switch located near the input section on the rear of the cabinet. Internal transformer may also be bypassed for 8-ohm operation via tap selector switch. A flush cover with wire exit hole is provided to insure input connections and tap selector switch are protected. Systems are available in Black or White finishes and can be painted to accommodate any architectural considerations.

ARCHITECT AND ENGINEER SPECIFICATIONS

The indoor/outdoor mini-loudspeaker system shall be Atlas Sound Model _____ (SM42T-B or SM42T-W) or approved equal. Assemblies shall consist of two-way woofer and tweeter within environment-resistant housings. Enclosure shall be constructed of paintable UV-resistant, talc impregnated, polypropylene injection molded plastic finished in black (SM42T-B) or white (SM42T-W). Each unit shall include a stamped powder coated aluminum grille and removable C-shaped mounting bracket. All hardware inserts shall be brass and threaded 1/4"-20. The 16-watt RMS system shall have a 4" (102mm) woofer, constructed of reinforced polypropylene, and a 1" (25mm) Ferro fluid tweeter. The dividing network crossover frequency shall be 4000 Hz. The dividing network shall include protection circuits for the high-frequency component. Each unit shall include an internally mounted 16 watt 70.7V/100V line matching transformer for use in

distributed sound applications. Wattage taps shall be screwdriver selectable via a sealed switch located near the input section. Wattage taps shall be 2W, 4W, 8W, 16W @ 70.7V. The loudspeaker system shall meet the following performance criteria: Power handling, 30 watts RMS. Frequency response, +/- 5 dB from 115 Hz to 16 kHz. Sensitivity shall be 88dB SPL at one watt, 85 Hz to 16 kHz measured at a distance of one meter on axis. Impedance shall be 8 ohms nominal. Input connectors shall include a two-pole barrier strip capable of accepting up to (2) #14AWG cable. A cover with wire exit hole shall be provided to protect the input connectors. The loudspeaker system shall exhibit no performance or cosmetic degradation after a 100 - hour salt spray test per ASTM B117 The unit shall be 7"(178mm) high, 5" (127mm) wide, 5-15/16" (151mm) deep and weigh 1.5lbs (.68kg).



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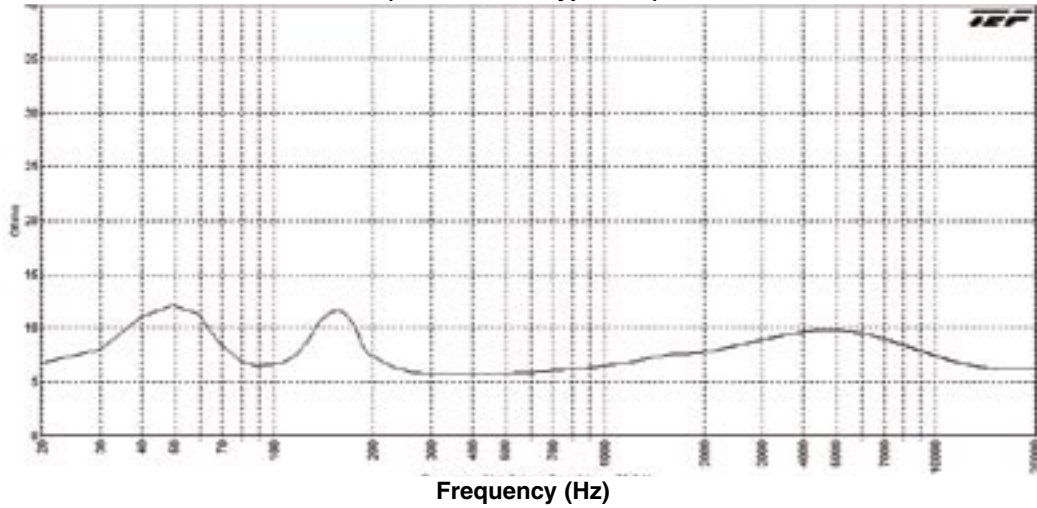


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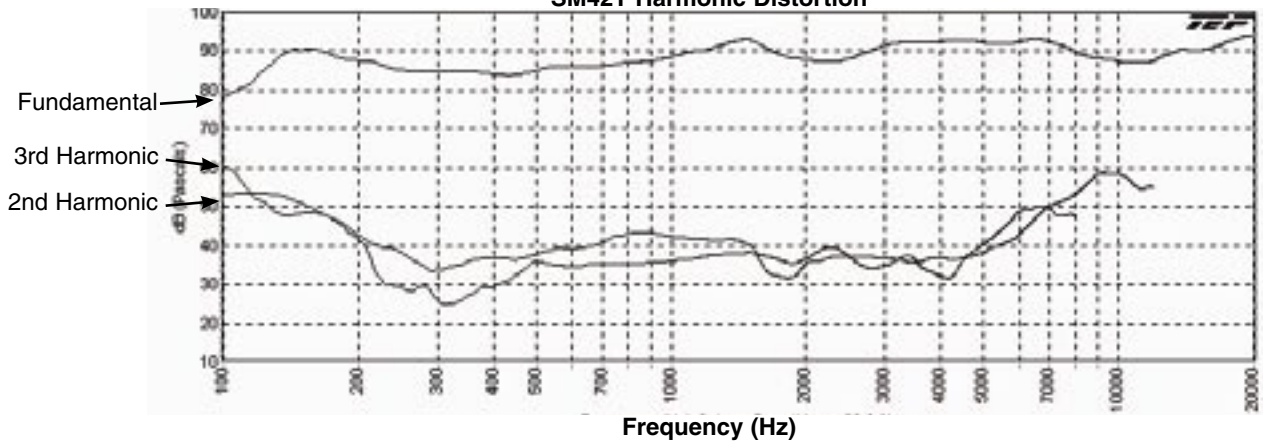
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SM42T Impedance (ohms) vs. Frequency (Transformer Bypassed)



SM42T Harmonic Distortion



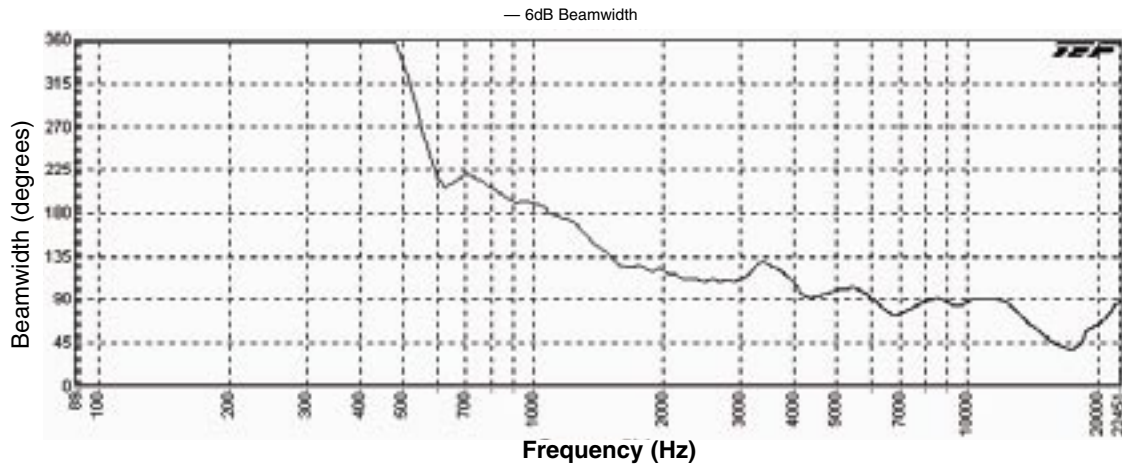
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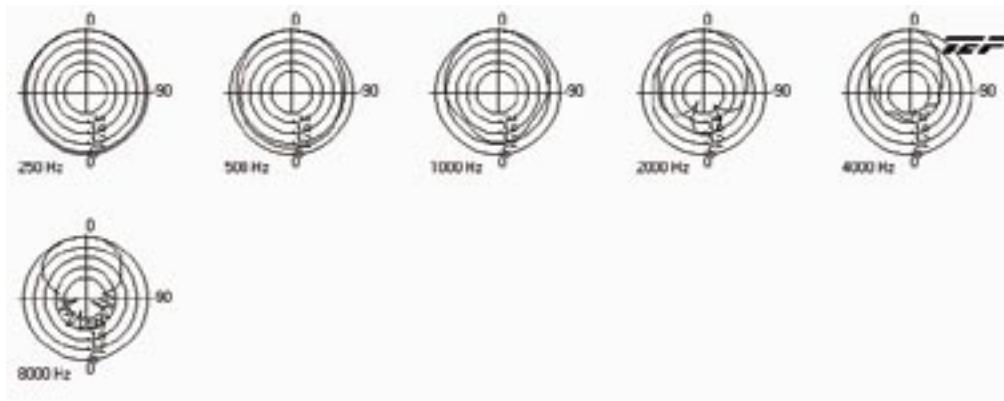
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SM42T Horizontal/Vertical Beamwidths vs. Frequency



SM42T POLARS (Horizontal & Vertical patterns are identical)



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