SMS2990

2-Way Surface Mounted Loudspeaker

DESCRIPTION

The SMS2990 significantly advances small loudspeaker technology in providing superior voice intelligibility, coherence and pattern control, combined with convenient, flexible mount capabilities.

The two-way SMS2990 (4 x 3-inch LF, 1 x 1.3-inch HF, 90-degree by 90-degree coverage pattern) incorporates proprietary Theta Technology™, with the LF drivers configured in a precise arrangement to provide excellent pattern control and coherency below the LF/HF crossover. The LF drivers also couple at lower frequencies, providing LF output of a much larger driver without sacrificing sound quality through the crossover region. The custom high-power HF driver complements the LF subsystem throughout the critical speech range.

The SMS2990 is designed for surface mounting using the proprietary Clip-Fit™ system. All connections for the loudspeaker are contained within the Clip-Fit wall-mount unit via a single Molex connector, with the wall-mount unit pre-mounted at the preferred position on a wall. The installer then just "clips" the loudspeakers onto the Clip-Fit arm, and in one motion, the audio connection is terminated and the loudspeaker is live. The wall-mount unit offers a pan/tilt positioning range for precise aiming. For basic installations, SMS loudspeakers are also provided with U-brackets.

Features

- *4 x 3-inch Kevlar LF transducers*
- *1 x 1.3- inch HF dome tweeter*
- *90˚ x 90˚ coverage pattern*
- *Theta Technology = superior coherence and pattern control*
- *Crossover optimized for speech intelligibility*
- *UV/weather resistant HIPS (High Impact Polystyrene) enclosure*
- *Convenient, flexible Clip-Fit mounting system*

Applications

- *Meeting Rooms*
- *Houses of Worship*
- *Courtrooms*
- *Multizone Paging/Music Systems*
- *Hotels*
- *Boardrooms*
- *Multi-Purpose Facilities*



SPECIFICATIONS

CONFIGURATION

Subsystem:	*Transducer*	*Loading*
	LF 4x 3 in cone	Vented
	HF 1x 1.3 in dome	Horn-loaded
Operating Mode:	*Amplifier Channels*	*External Signal Processing*
	Single-amp LF/HF	HPF

PERFORMANCE

Operating Range:	90 Hz to 20 kHz
Nominal Beamwidth:	Horz 90°
	Vert 90°
Axial Sensitivity (whole space SPL):	
	LF/HF 90 dB 90 Hz to 20 kHz

Input Impedance (ohms):	*Nominal*	*Minimum*
	LF/HF 8	6.5 @ 325 Hz

Input Taps (w/CF-1TX version):	70 V: 64 W / 32 W / 16 W / 8 W
	100 V: 64 W / 32 W / 16 W
High Pass Filter:	High Pass=>90 Hz, 24 dB/octave Butterworth
Accelerated Life Test:	LF/HF 32 V 125 W @ 8 ohm

Calculated Axial Output Limit (whole space SPL):		
	Average	*Peak*
	LF/HF 111 dB	117 dB

PRODUCT DATA

Model Name:	SMS2990
Part Number:	0018515 Black
	0018516 White

PHYSICAL

Height (front face):	12 in / 30.48 cm
Width (front face):	7.62 in / 19.35 cm
Depth (from face, backwards):	8.26 in / 20.98 cm
Weight:	6.2 lbs / 2.81 kg

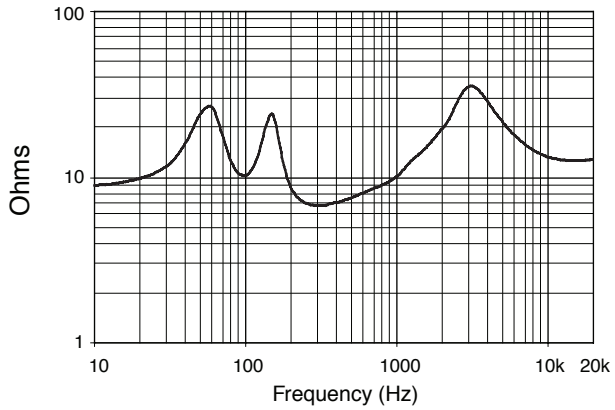
ACCESSORIES

CF-2TX Black	0023521
CF-2TX White	0023522
CF-2LZ Black	0023515
CF-2LZ White	0023516

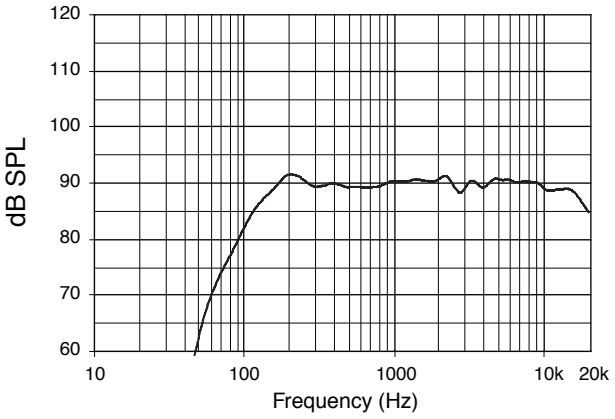
SMS2990

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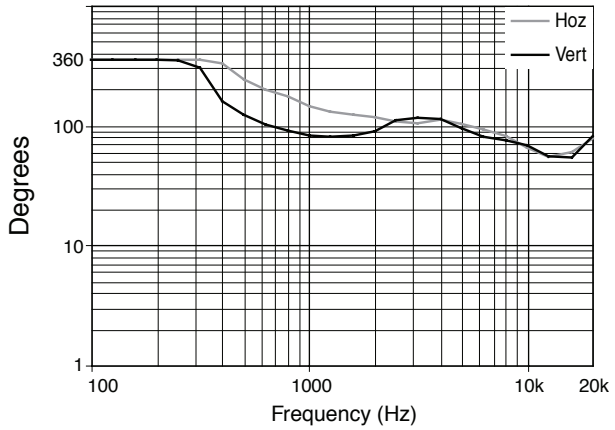
SMS2990 Impedance vs. Frequency



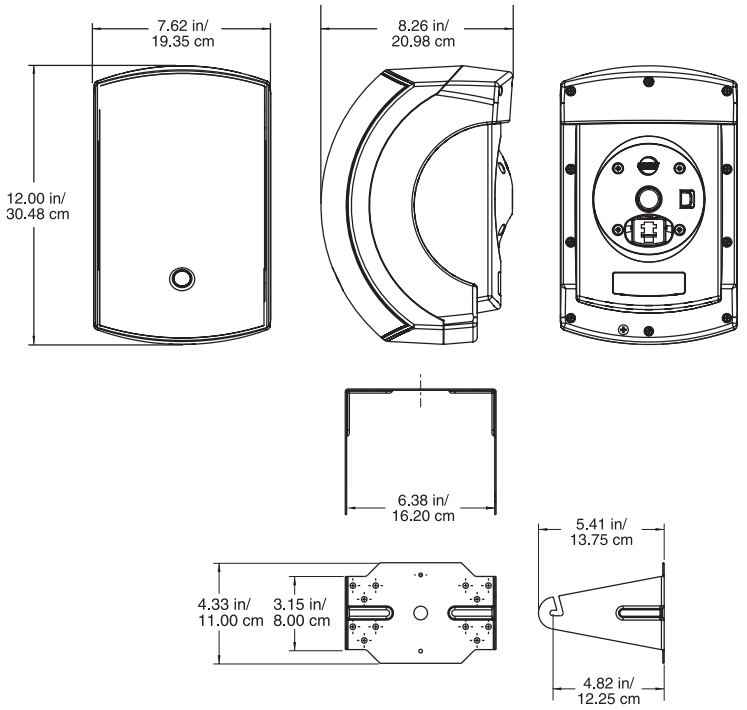
SMS2990 Axial Response vs Frequency



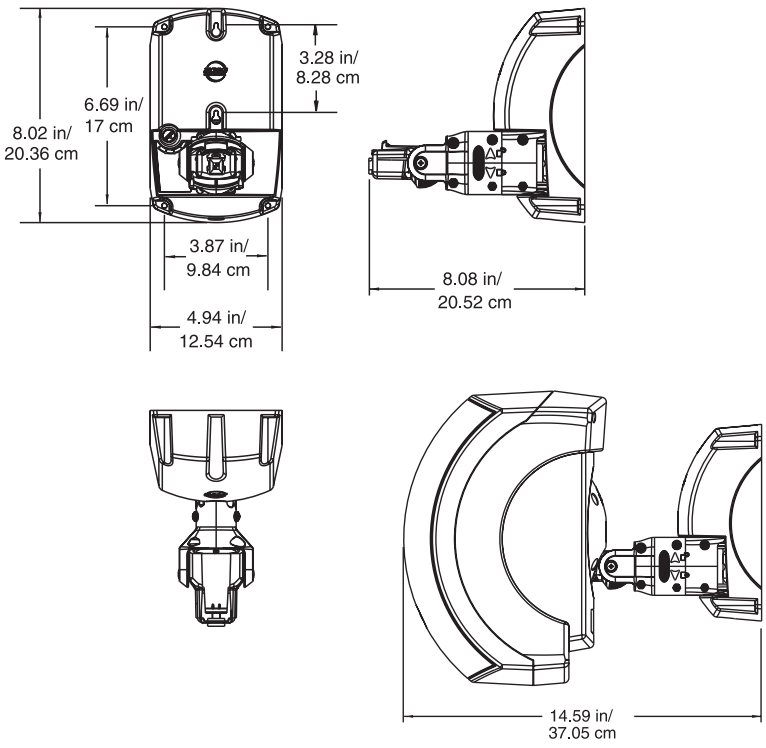
SMS2990 Beamwidth vs Frequency



Dimensions

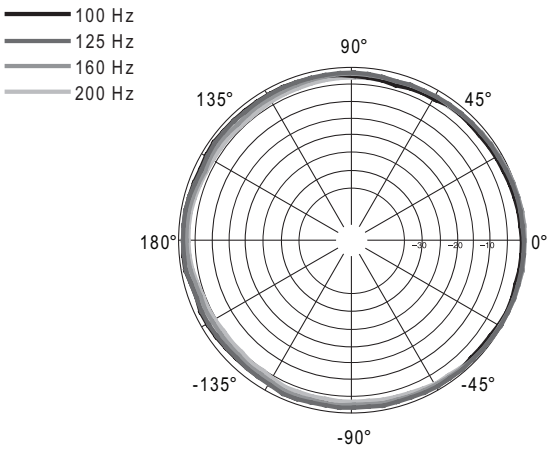


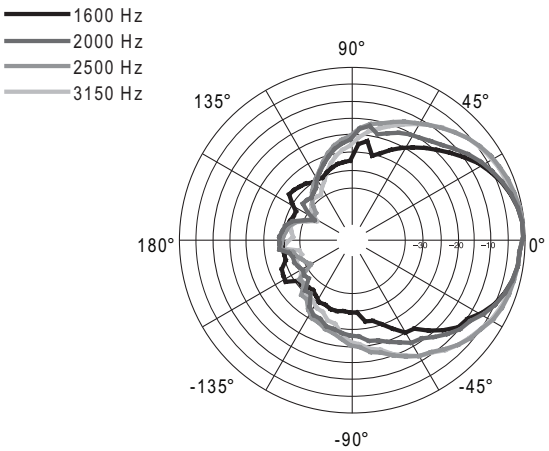
Clip-fit bracket dimensions:

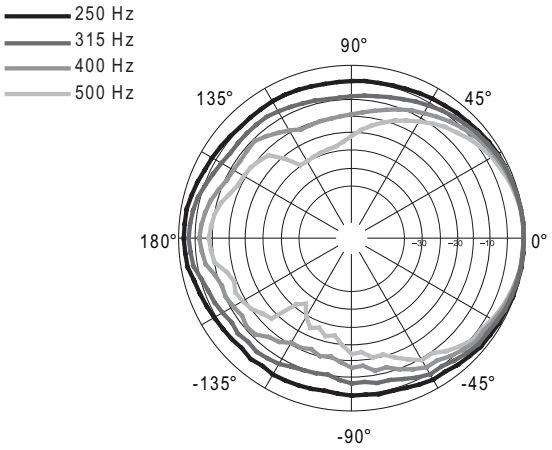


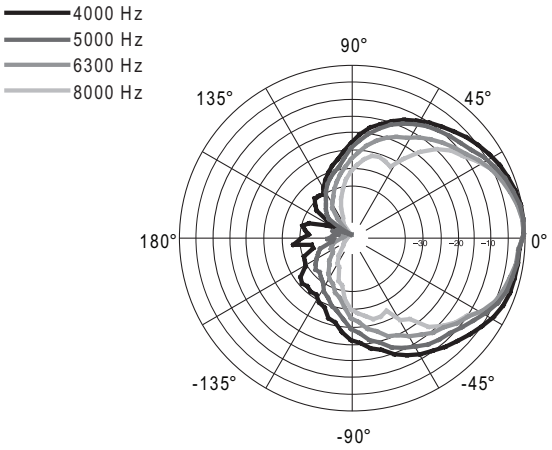
Part No. 0032593 Rev A 11/08

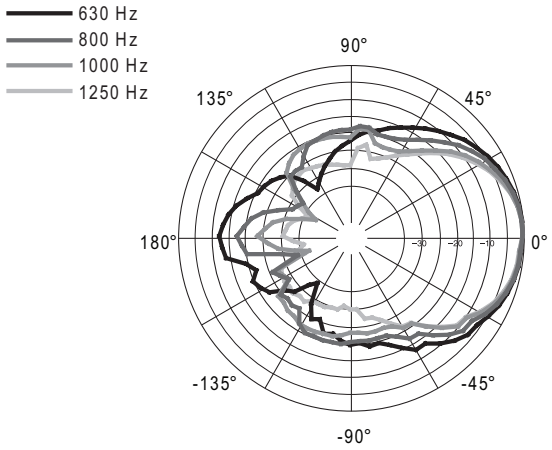
SMS2990 VERTICAL POLARS

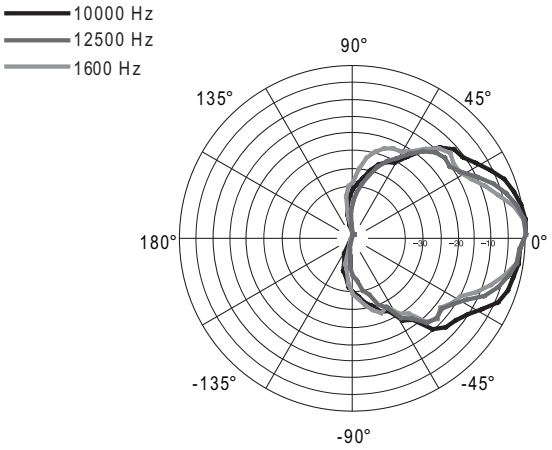










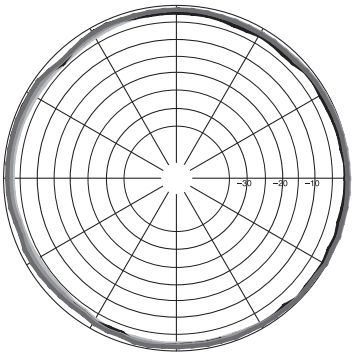


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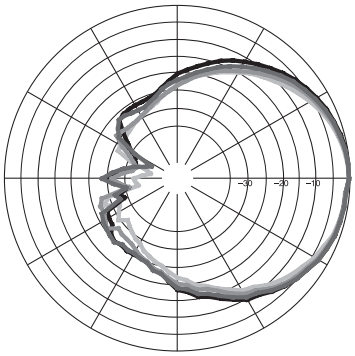
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SMS2990 HORIZONTAL POLARS

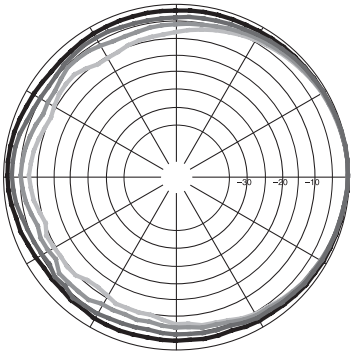
100 Hz
125 Hz
160 Hz
200 Hz



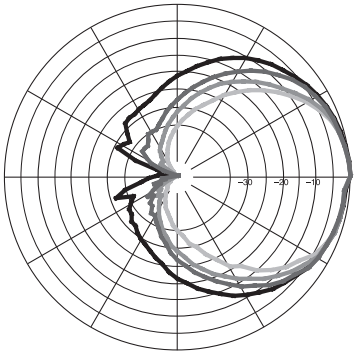
1600 Hz
2000 Hz
2500 Hz
3150 Hz



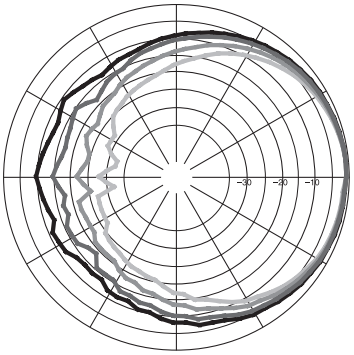
250 Hz
315 Hz
400 Hz
500 Hz



4000 Hz
5000 Hz
6300 Hz
8000 Hz



630 Hz
800 Hz
1000 Hz
1250 Hz



10000 Hz
12500 Hz
1600 Hz

