



Technics SB-6000

"Linear Phase" 2-Way Speaker System



SB-6000 Linear Phase 2-Way Speaker System

A New Technical Achievement... A New Experience in Realism!

The SB-6000 speaker system is a major advance in listening realism, where the output sound-pressure waveforms mirror almost exactly the electrical input signals. Perhaps you thought that was what all speakers were supposed to do? Right! but it took all Technics accumulated audio knowhow to achieve the technical breakthrough that made this new kind of breath-taking realism possible. It wasn't easy, but it was certainly worth while, as a short listening test will quickly prove. Make sure you hear these SB-6000 speakers if you are looking for that indefinable—but unmistakable—sense or being really 'there' whether at a live performance or in the recording studio. Most speakers today have fairly flat

amplitude frequency responses, and so they should. But this isn't enough: Technics research showed that the ultimate in realism calls for a linear phase response, too. You may not want to be bothered with technical explanations of 'phase' and its measurement with the help of the special 'Bucket Brigade Device (BBD).' But you can't afford to ignore the difference that they make. At last you will be able to 'see through' the speakers to judge the finer points of performer artistry, or studio acoustics, or—on the other hand—delicate differences in cartridge tone quality or amplifier tone control settings. Adding nothing, taking nothing away; limpid, pure, and amazingly real: the SB-6000 speaker system.

Technical Specifications

Configuration	2-way 2-speaker bass reflex
Impedance	6Ω
Peak input power	100 W
Output level	93.0 dB/W (1m)
Speaker units	Woofers: 30cm (12") cone type Tweeter: 3.2cm (1¼") dome type
External dimensions (W × H × D)	425 × 846 × 340mm (16¾" × 33⅝" × 13⅜") (including grille)
Net weight	28.0 kg (61.7 lbs.)

Note 1: The Maximum instantaneous peak power quoted above is for a voice-coil temperature rise to not greater than 80°C (176°F), which corresponds to the conditions of measurement.

Note 2: System supplied with grille cloth as shown on front page.

Bass-Reflex 2-Way Speaker System with 30cm (12") Woofer and Dome Tweeter in Linear Phase Configuration

Everything for Linear Phase Response
Output sound-pressure waveforms mirror electrical input signals because the crossover network was specially designed to give linear overall phase characteristics for the whole speaker system, including the individual speaker units, because the units themselves have wide frequency range and high performance, and because the units are in the ideal physical configuration.

Large, High Performance Woofer
The blended pulp/aramid fiber cone combines lightness with high Young's modulus (strength) for smooth piston motion and low distortion from super-low frequencies right through the critical midranges. With powerful magnet and aluminum-wire voice coil, and a one-piece die-cast frame, the result is superb performance.

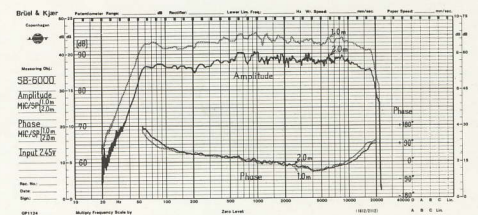
Dome Tweeter on Diffraction Equalizer Bracket
This is a high efficiency, low distortion dome type unit using a diaphragm of heat-molded expanded polyurethane on a silk cloth base.

A novel combination of derived 'm'-type circuit and 12 dB/oct filter circuit contributes to an extremely sharp low frequency cut-off. High frequency response is greatly extended by a special aluminum ring at the junction between diaphragm and voice coil. Reflection and interference are actively exploited by the specially designed mounting bracket, to give much more even dispersion and an amazing sense of 'presence.' The crossover network ensures the smoothness and perfect tweeter/woofer balance, with linear phase, that makes the SB-6000 sound more like a wide range single speaker than a two-way unit.

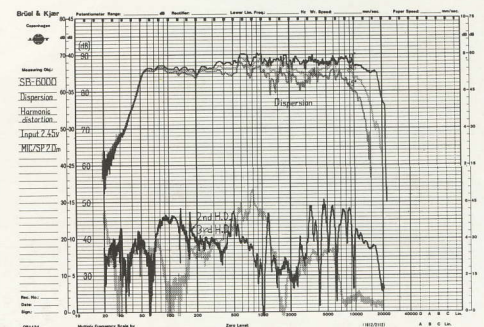
High Power, High Efficiency Bass Reflex Design

The SB-6000 features a carefully-tuned bass reflex cabinet which offers a rich, solid, and powerful bass response virtually unobtainable from bookshelf types. And while it will take a tremendous 100 watt peak power input, the 93 dB/W.m efficiency means that even low power amplifiers give impressive volume and scale.

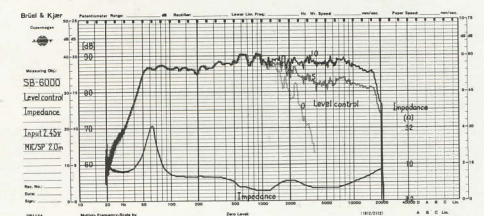
Sound Pressure and Phase Characteristics



Directional Dispersion and Harmonic Distortion



Level Control Response and Impedance Characteristics



 **Technics**
Matsushita Electric

Specifications are subject to change without notice. Printed in Japan