

Sx80 175-Watt Two-Way Speaker System

Specifications

Typical Axial Frequency Response, Swept Sine Wave, 4 volts at 3.05 meters (10 feet), (half-space, normalized for 1 watt at 1 meter; see Figure 1):

65-20,000 Hz

Low-Frequency 3-dB-Down Point:

65 Hz

Usable Low-Frequency Limit (10-dB-down point):

51 Hz

Half Space Reference Efficiency:

1.2 %

Long-Term Average Power-Handling Capacity per EIA Standard RS-426-A 1980 (see Power-Handling Capacity section):

175 watts

Maximum Woofer Acoustic Output:

2.1 watts

Sensitivity (SPL at 1 watt, 1 meter input, half-space, swept sine wave):

92 dB

Nominal Coverage Angle,

Horizontal: 90°

Vertical: 65°

Dispersion Angle Included by 6-dB-Down Points on Polar Responses, Indicated One-Third-Octave Bands of Pink Noise (see Figure 3),

2,000-20,000 Hz, Horizontal:

90° (+34°, -27°)

2,000-20,000 Hz, Vertical:

65° (+31°, -4°)

Directivity Factor $R_0(Q)$, 800- to 16,000-Hz Median (see Figure 4):

8.3 (+5.7, -4.9)

Directivity Index D_1 , 800- to 16,000-Hz Median (see Figure 4):

9.2 dB (+2.3 dB, -3.9 dB)

Distortion, 0.1 Full Power Input, (see Figure 5)

Second Harmonic,

100 Hz:

-21 dB, 9.0%

1,000 Hz:

-55 dB, 0.2%

10,000 Hz:

-25 dB, 5.6%

Third Harmonic,

100 Hz:

-26 dB, 4.9%

1,000 Hz:

-41 dB, 0.9%

10,000 Hz:

-47 dB, 0.5%

Transducer Complement,

High Frequency:

DH2005 driver

Low-Frequency:

203-mm (8-in.) woofer

Box Tuning Frequency:

70 Hz

Crossover Frequency:

2,200 Hz

Crossover Slope,

12 dB per octave

Impedance,

Nominal:

8 ohms

Minimum:

7.2 ohms

Input Connections,

Sx80:

Push-pins

Driver Protection, High Frequency:

Solid-state self-resetting circuit (PROJ circuit) drops output 6 dB; blocking capacitor with 800-Hz corner frequency and 6-dB-per-octave slope

Materials,

Enclosure:

Injection-molded high-impact polystyrene, black or white

Grille:

Perforated metal grille matches enclosure color

Dimensions (see Figure 7)

Height:

400 mm (15.75 in.)

Width:

292 mm (11.49 in.)

Depth:

222 mm (8.75 in.)

Net Weight:

8.2 kg (18 lb)

Shipping Weight:

10.0 kg (22 lb)

Optional Accessories:

Sx80MB installation kit, black or white

Attachment Points:

Seven M6 and four M5 metric inserts (see Figures 7, 8, and Suspending Sx80 Enclosures section)

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