

FreeSpace® DS 40F loudspeaker



Key Features

- **Full-range** loudspeaker with a single 4.5" (114 mm) driver in a ported enclosure to deliver a 125° conical coverage pattern and clear, intelligible music and speech reproduction for flush-ceiling or pendant-mount applications
- **Integrated multi-tap transformer** with innovative thumb wheel adjustment for easy-to-change tap setting from underneath the loudspeaker grille
- **Shortcan design** allows installation in shallower ceilings with minimum depth of 6.4" (163 mm)
- **Shared voicing** across entire FreeSpace DS product family enables DS 16, DS 40 and DS 100 loudspeakers to be integrated on the same system and maintain consistent tonal quality
- **Supported** by a suite of accessories, including ceiling-mount bracket, adjustable tile bridge, pendant-mount kit and square grille



TECHNICAL DATA SHEET

Product Overview

The Bose® FreeSpace DS 40F is the most versatile member of the DS loudspeaker family. It is a high-performance, full-range, flush-mount loudspeaker designed for foreground and background music and speech reproduction in a wide range of installed applications. The DS 40F features high output and 125° conical pattern with a frequency range down to 70 Hz.

Technical Specifications

System Performance		
Frequency Response (+/-3 dB) ¹	80 Hz - 17 kHz	
Frequency Range (-10 dB) ¹	70 Hz - 19 kHz	
Nominal Dispersion	125° conical	
Recommended High-Pass Filter	70 Hz high-pass filter	
Loudspeaker EQ	Recommended	
Overload Protection	PTC/Resistor	
Long-Term Power Handling ²	40 W (160 W peak)	
Sensitivity (SPL / 1 W @ 1 m) ³	87 dB SPL	
Maximum SPL @ 1 m ⁴	103 dB SPL (109 dB SPL peak)	
Nominal Impedance	8 Ω (transformer bypassed)	
Transformer Taps (70/100 V)	70 V: 2.5 W, 5 W, 10 W, 20 W, 40 W 100 V: 5 W, 10 W, 20 W, 40 W	
Transducers		
Driver Complement	4.5" (114 mm) full-range driver	
Physical		
Enclosure	Polypropylene (front baffle), powder-coated steel (rear enclosure)	
Grille	Powder-coated steel grille	
Environmental	Indoor use only	
Connectors	Three-terminal barrier strip; two-terminal barrier strip (8 ohm variant). Optional accessory available for use when ceramic connector and thermal fuse are required. Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm)	
Suspension / Mounting	Three integrated quick-install mounting arms. Three mounting points at the rear of the enclosure for use with optional accessory pendant mount kit. Safety cable attachment: .35" (8.9 mm) diameter hole on junction box	
Dimensions	Outer flange diameter: 11.8" (300 mm) Depth: 6.0" (153 mm) Ceiling hole diameter: 10.5" (267 mm)	
Ceiling Thickness (Maximum)	2.5" (64 mm)	
Net Weight	8.3 lb (3.7 kg) - with transformer	6.3 lb (2.8 kg) - 8 Ω variant
Shipping Weight	11.0 lb (5.0 kg) - with transformer	9.0 lb (4.1 kg) - 8 Ω variant
Product Code		
Black	321278-0130 - with transformer	321278-0140 - 8 Ω variant
White	321278-0230 - with transformer	321278-0240 - 8 Ω variant

Footnotes:

- ¹ Frequency response and range measured on-axis with recommended active EQ in an anechoic environment.
- ² Power handling tested using pink noise filtered to meet IEC 268-5, 6 dB crest factor, 100 hours, with recommended EQ.
- ³ Sensitivity measured in free field (no boundary-loading gain) with recommended active EQ, referenced to 1W/1m.
- ⁴ Maximum SPL calculated from sensitivity and power handling specifications, exclusive of power compression.