

JBL Engineering	Engineering Standard	Date Effective 10/10/2005	Number 1944
	Engineering Design Specification		Page 1 of 4

Model: 2452H-SL
2452J-SL

4" Titanium 1.5" exit Compression Driver with Aquaplas

Frequency Response: See attached curves, page 2
 High Frequency Response: See attached curves, page 2
 Impedance: See attached curves, page 3
 Distortion: See attached curves, page 3
 Additional Parameters: See attached table, page 4

Voice Coil:
 DC Resistance: 4.1 ohms (H) / 8.0 ohms (J) +/- 8%
 Wire: Aluminum Ribbon
 Size: 0.0056" x 0.014" (H) / 0.0041" x 0.014" (J)
 Configuration: 21 turns (H) / 30 turns (J) Edgewound
 Coil Size: 3.904" ID x 0.125" high
 Wire length: 6.75 meters (H) / 9.35 meters (J)

Flux Density: 1.9 Tesla

Magnetic gap: 0.042" wide X 0.130" tall gap nominal.
 Topplate ID: 3.967", Pole OD: 3.882"

Coupling Factor (BL): 12.8 (H) / 17.8 (J) N/Amp

Diaphragm Material: 0.002" thick Pure Titanium

Power test: 50 Watts (17.3 Vrms (H) / 24.4Vrms (J))
 500-5khz pink noise 6dB Crest Factor
 for 2 hours on plastic 500Hz horn

Polarity: Positive voltage to black terminal gives positive pressure output

Weight: 2.0 Kg (4.4 lb)

REVISIONS

REV	DESCRIPTION	DATE	APPR
A	INITIAL RELEASE	10/10/2005	AVS

Design Engineer

Alex Salvatti



Model 2452H-SL

Frequency
Response
400mV for H
566mV for J
2" Plane wave tube
with 1.5" adapter

Average of 4
rotations



High Frequency
Response



Impedance
plane wave tube



Harmonic
Distortion
5.5V for H
Purple = 2nd
Blue = 3rd
Red = 1/2



Model: 2452H-SL

Applicable Driver parameters

Fs: 570 Hz

Re: 4.1 (H) / 8.0 (J) ohms

Ret: 7.30 ohms

Sd: 78.54 Sq cm

BL: 12.8 (H) / 17.8 (J) N/A

Mms: 3.6 g

Mass Break Point: 3530 Hz

Zmin: 6.0 (H) / 12.0 (J) ohms at 4000 Hz

Pe 50 W into Zmin for 2 hours