

JBL Engineering	Engineering Standard	Date Effective 1/15/02	Number 1827
	Engineering Design Specification		Page 1 of 4

Model: 2407H

Re-entrant Ring Radiator

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:	4.25 ohms +/- 0.15 ohms
Wire:	Copper clad aluminum (10% Cu by volume)
Size:	34.5AWG (0.150mm) round wire, 171mg wire mass, 2.715m length
Configuration:	2 layers, 22.5 turns total
Coil Size:	1.492" former ID x 0.080" winding length Coil OD: 1.522" nominal
Flux Density:	1.84T average through coil
Magnetic gap	0.034" wide X 0.090" tall gap nominal. Topplate ID: 1.542", Pole OD: 1.474"
Coupling Factor (BL)	5.0 N/A
Compression Ratio:	approx 10:1
Diaphragm Material:	0.004" Polyester in a re-entrant ring radiator configuration
Power test:	25 watts (1.6 - 16Khz, 11.9V pink noise) for 100 hours on a plastic horn. ABS phaseplug (Bayer Novodour P2H-AT) is thermally limited to 89C service temp
Polarity:	Positive voltage to black terminal (0.187" faston) gives positive pressure output
Weight:	1.1 pounds
Special Notes:	Diaphragm/coil/phase plug assembly purchased from BMS Elektronik as their model #4538-8 OEM. Neo version of 2406H

REVISIONS

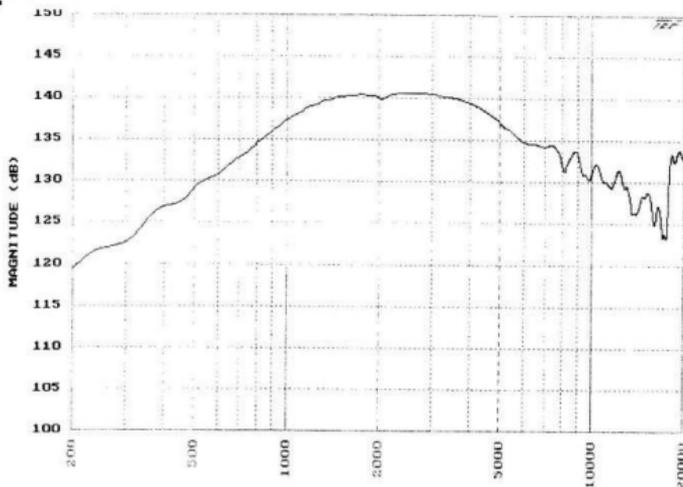
LTR	DESCRIPTION	DATE	APPR
A	INITIAL RELEASE	12/7/01	AVS

Design Engineer

Alex Salvatti

Model 2407H

FREQUENCY
RESPONSE @
1.0V RMS
ON 1" PLANE
WAVE TUBE.
5% SMOOTHING



TYPE: 2407H DS

FREQUENCY (Hz)

Smoothing 5

5.0

Dist. Res. =

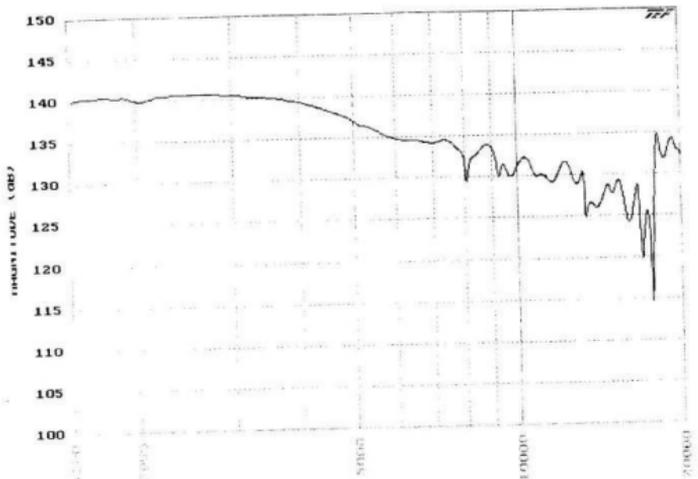
35.8

Freq. Res. =

31.

HIGH FREQ.
RESPONSE @
1.0V ON
1" P.W.T.

0% SMOOTHING



TYPE: 2407H DS

FREQUENCY (Hz)

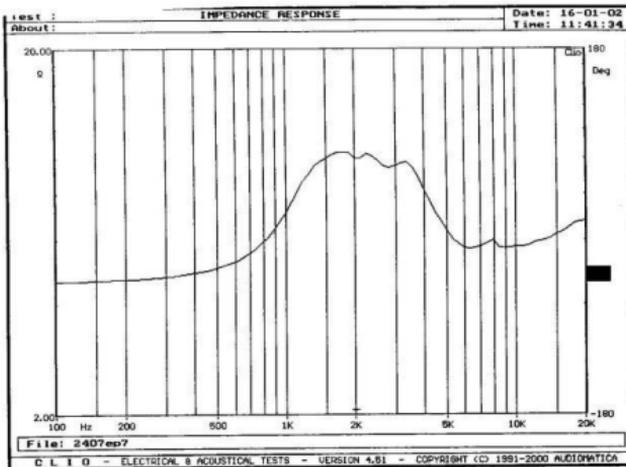
5.0

Dist. Res. =

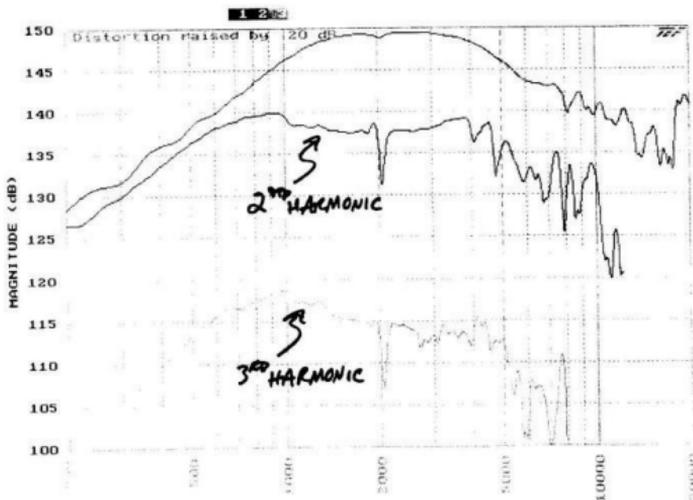
31.

Model: 2407H

IMPEDANCE
ON 1"
PLANE WAVE TUBE



DISTORTION
ON 1" PWT
@ 2.83V RMS
5% SMOOTHED



Model: 2407H

Driver parameters

Fs:	1750 Hz
Re:	4.25 ohms
Ret:	5.00 ohms
Sd:	12 Sq cm
Compression ratio:	10:1
BL:	5.0 N/A
Mmd:	440 mg
Mass Break Point:	4250 Hz
Zmin:	5.7 ohms at 8700 Hz
Pe	25 W into Zmin