DL15BFH 15-Inch Loudspeaker

17-Dec-01

Description: 15-inch loudspeaker for sound-reinforcement applications from 45-2000 Hz. Ideal for medium-to-high-power bass boxes or two-way systems. Good choice for direct-radiating systems. EV's Ring-Mode Decoupling (RMD) employed for accurate transient

Part Numbers:

815-3324: Systems version with front rim of frame painted black, without an EV nameplate, and without packaging (not shipable).
815-PD-3324: Single packaged 815-3324 for shipping.
815-3381: Sales version (over-the-counter) with front rim

Specifications		
General Information	Nominal Cone Diameter (in.)	15
	(mm)	381
	Nominal Coil Diameter (in.)	2.5
	(mm)	63.5
	Nominal Impedance (ohms)	8
	Frequency Range (Hz)	45-2000
	Power Rating, as per EIA-RS426A (Watts)	350
	Sensitivity, 1w@1m (db SPL)	96.0
	Maximum Calculated SPL (dB SPL)	121.4
	Nominal Efficiency (%)	3.93
	Max Calculated Acoustic Power (Ac. Watts)	13.8
	Magnetic Material	Ceramic
	Acoustic Polarity for "+" Voltage	Positive
Thiele-Small Parameters	Free Air Resonance, Fs (Hz)	45.63
	Mechanical Q, Qms	7.684
	Electrical Q, Qes	0.302
	Total Q, Qts	0.291
	Moving Mass, Mms (g)	107.27
	Compliance, Cms (mm/N)	0.113
	Equivalent Volume Compliance, Vas (CuFt)	4.500
	(l)	127.43
	Mechanical Resistance, Rms (Mech Ohms)	4.002
	DC Resistance, Re (Ohms)	4.900
	Bl Product, Bl (Tesla-Meters)	22.336
	Maximum Linear Displacement, Xmax (in.)	0.160
	(mm)	4.06
	Maximum Physical Displacement, Xlim (in.)	0.500
	(mm)	12.70
	Effective Radiating Diameter (in.)	13.250
	(mm)	336.6
Figures	Frequency Response, 1w@1m	Figure 1
	Free Air Impedance	Figure 2
	Distortion, 10% Full Power	Figure 3
	Distortion, 115 dB SPL @ 1m	Figure 4
	Polars in Typical Enclosure	
Dimensions	Frame Front Diameter (in.)	15.16
	(mm)	385.0
	Magnet Diameter (in.)	6.13
	(mm)	155.6
	Overall Depth (in.)	6.00
	(mm)	152.4
	Mounting Bolt Circle Diameter (in.)	14.563
	(mm)	369.9
	Baffle Board Cutout Diameter (in.)	14.063
	(mm)	357.2
	Net Weight (lb)	12.0
	(kg)	5.4
	Shipping Weight (lb)	13.5
	(kg)	6.1

Figure 1 - Frequency Response

2.83v (1w) @ 1m, 12 Cubic-Foot Closed Box IEC Standard Baffle

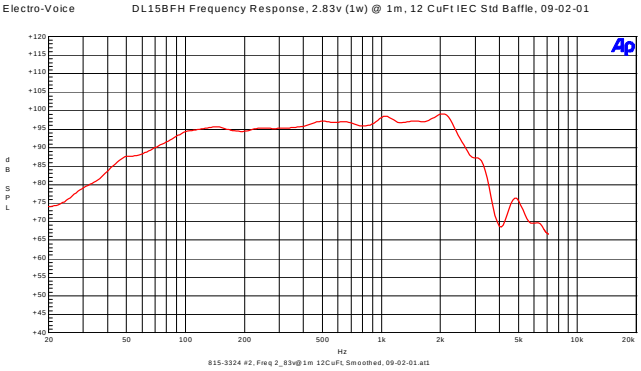


Figure 2 - Free Air Impedance

Woofer In Free Air (No Enclosure)

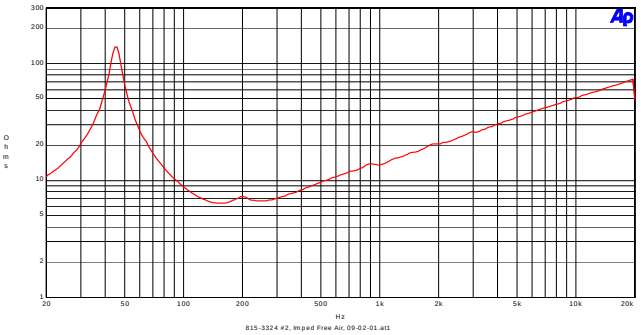


Figure 3 - Distortion, 10% Full Power @ 1m

12 Cubic-Foot Closed Box IEC Standard Baffle

2nd Harmonic: Solid Line, 3rd Harmonic: Dashed Line

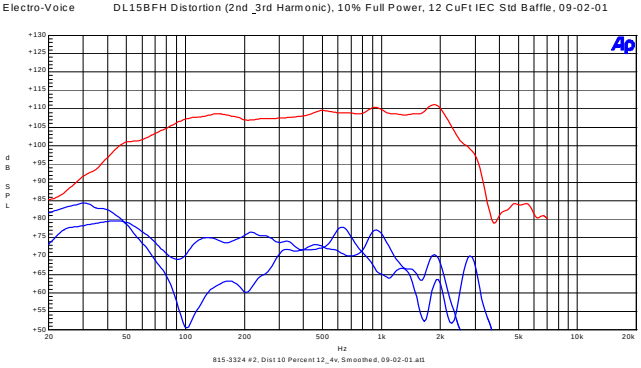
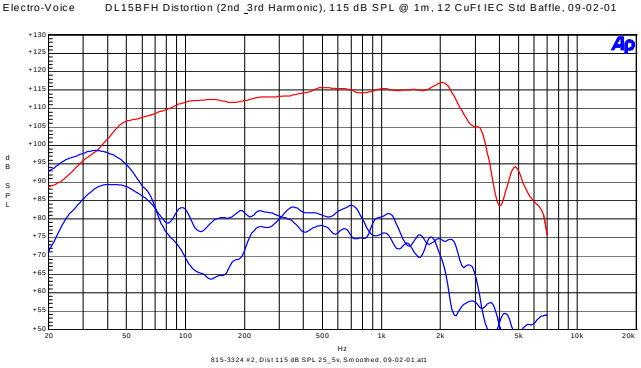


Figure 4 - Distortion, 115 dB SPL @ 1m

12 Cubic-Foot Closed Box IEC Standard Baffle

2nd Harmonic: Solid Line, 3rd Harmonic: Dashed Line



Note: All specifications shown are for typical typical loudspeakers. Specifications are subject to change without notice.