



Description: 12-inch loudspeaker for sound-reinforcement applications from 60-2000 Hz. Ideal for medium-to-high-power two-way systems. Good choice for direct-radiating systems. EV's Ring-Mode Decoupling (RMD) employed for accurate transient response and low distortion.

Part Numbers:

812-3283: Systems version with front rim of frame painted black, without an EV nameplate, and without packaging (not shippable).

812-PD-3283: Single packaged 812-3283 for shipping.

812-3379: Sales version (over-the-counter) with front rim of frame painted black, EV nameplate, and individual packaging.

Specifications

General Information	Nominal Cone Diameter (in.)	12
	(mm)	305
	Nominal Coil Diameter (in.)	2.5
	(mm)	63.5
	Nominal Impedance (ohms)	8
	Frequency Range (Hz)	60-2500
	Power Rating, as per EIA-RS426A (Watts)	300
	Sensitivity, 1w@1m (dB SPL)	96.0
	Maximum Calculated SPL (dB SPL)	120.8
	Nominal Efficiency (%)	3.69
Thiele-Small Parameters	Max Calculated Acoustic Power (Ac. Watts)	11.1
	Magnetic Material	Ceramic
	Acoustic Polarity for "+" Voltage	Positive
	Free Air Resonance, F_s (Hz)	60.04
	Mechanical Q, Q_{ms}	9.611
	Electrical Q, Q_{es}	0.317
	Total Q, Q_{ts}	0.307
	Moving Mass, M_{ms} (g)	56.58
	Compliance, C_{ms} (mm/N)	0.124
	Equivalent Volume Compliance, V_{as} (CuFt)	1.943
	(l)	55.02
	Mechanical Resistance, R_{ms} (Mech Ohms)	2.221
	DC Resistance, R_e (Ohms)	4.400
	BI Product, BI (Tesla-Meters)	17.214
	Maximum Linear Displacement, X_{max} (in.)	0.160
Figures	(mm)	4.06
	Maximum Physical Displacement, X_{lim} (in.)	0.500
	(mm)	12.70
	Effective Radiating Diameter (in.)	10.500
Dimensions	(mm)	266.7
	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	
	Frame Front Diameter (in.)	12.19
	(mm)	309.6
	Magnet Diameter (in.)	6.13
	(mm)	155.6
Dimensions	Overall Depth (in.)	5.25
	(mm)	133.4
	Mounting Bolt Circle Diameter (in.)	11.563
	(mm)	293.7
	Baffle Board Cutout Diameter (in.)	11.063
	(mm)	281.0
	Net Weight (lb)	11.1
	(kg)	5.0
	Shipping Weight (lb)	12.3
	(kg)	5.6

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

Figure 1 - Frequency Response

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

Electro-Voice DL12BFH Frequency Response, 2.83v (1w) @ 1m, 12 CuFt IEC Std Baffle, 09-02-01

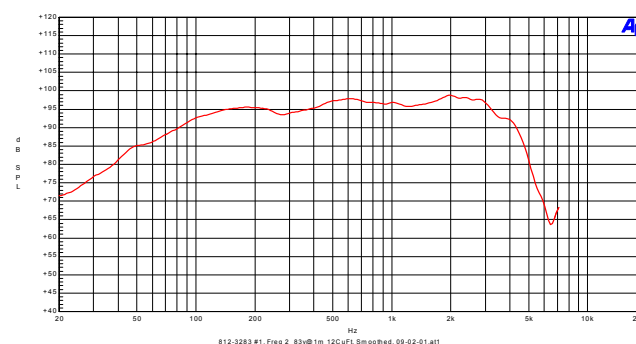


Figure 2 - Free Air Impedance

Woofer In Free Air (No Enclosure)

Electro-Voice DL12BFH Free Air Impedance, 09-02-01

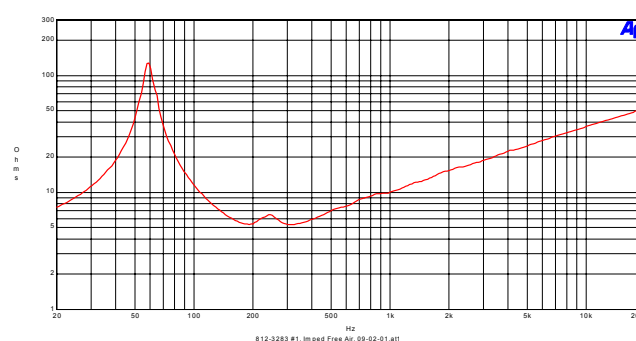


Figure 3 - Distortion, 10% Full Power @ 1m

12 Cubic-Foot Closed Box IEC Standard Baffle

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

Electro-Voice DL12BFH Distortion (2nd_3rd Harmonic), 10% Full Power, 12 CuFt IEC Std Baffle, 09-02-01

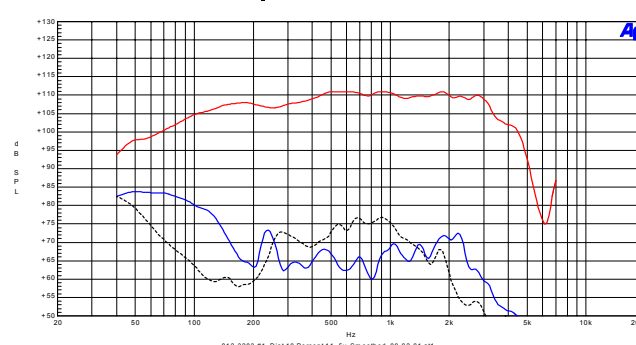


Figure 4 - Distortion, 115 dB SPL @ 1m

12 Cubic-Foot Closed Box IEC Standard Baffle

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

Electro-Voice DL12BFH Distortion (2nd_3rd Harmonic), 115 dB SPL @ 1m, 12 CuFt IEC Std Baffle, 09-02-01

