

# PROFESSIONAL SERIES

## LAB12

Recommended for vented, sealed, and horn loaded professional audio enclosures as a subwoofer. A popular choice for car audio subs.

- 800 W Program Power
- 12" Nominal Diameter
- 6 or 4 Ω

APPLICATION		ENCLOSURE	
Midrange	<input type="checkbox"/>	Sealed Box	<input checked="" type="checkbox"/>
Midbass	<input type="checkbox"/>	Vented Box	<input checked="" type="checkbox"/>
Woofer	<input type="checkbox"/>	Scoop Loading	<input type="checkbox"/>
Subwoofer	<input checked="" type="checkbox"/>	Horn Loading	<input checked="" type="checkbox"/>
Bass Guitar	<input type="checkbox"/>		



### SPECIFICATION

Nominal Basket Diameter	12", 305 mm
Nominal Impedance*	6 or 4 Ω
Power Rating*	
Program Power	800 W
Nominal Power	400 W
Resonance	22 Hz
Usable Frequency Range	25 Hz – 0.1 kHz
Sensitivity*	89.2 dB
Magnet Weight	160 oz.
Gap Height	0.375", 9.5 mm
Voice Coil Diameter	2.5", 64 mm

### THIELE & SMALL PARAMETERS

Fs	22 Hz
Re	4.29 Ω
Le	1.48 mH
Qms	13.32
Qes	0.39
Qts	0.38
Vas	4.42 cu.ft., 125.2 liters
Vd	659 cc
Cms	0.35 mm/N
BL	15 T-M
Mms	146 grams
EBP	56
Xmax	13 mm
Sd	506.7 cm <sup>2</sup>
Xlim	22 mm

### MOUNTING INFORMATION

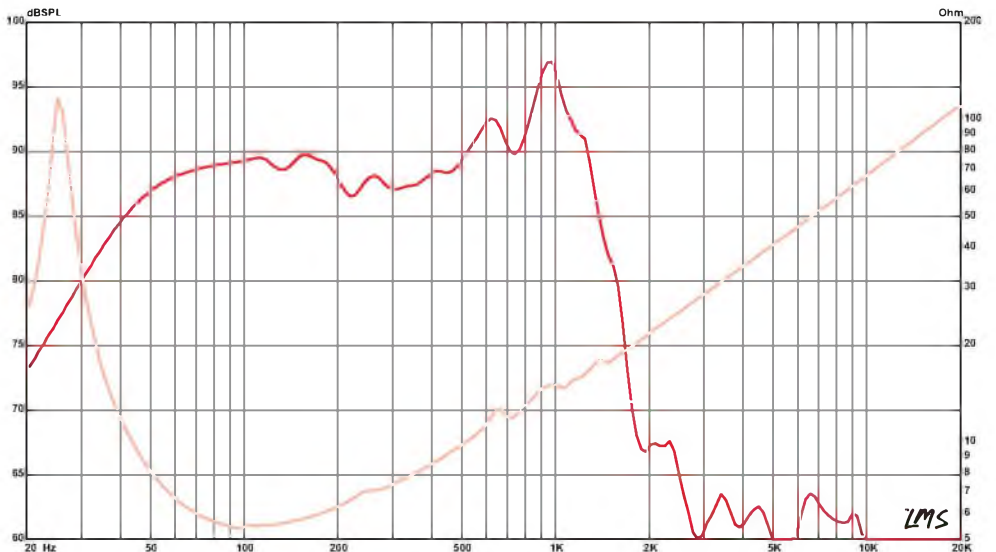
Recommended Enclosure Volume	Sealed	22.7–28.3 liters, 0.8–1 cu. ft.
	Vented	45.3–101.9 liters, 1.6–3.6 cu. ft.
Driver Volume Displaced		0.109 cu. ft., 3.09 liters
Overall Diameter		12.32", 312.9 mm
Baffle Hole Diameter		10.98", 278.9 mm
Front Sealing Gasket		Yes
Rear Sealing Gasket		N/A
Mounting Holes Diameter		0.26", 6.6 mm
Mounting Holes B.C.D.		11.77", 299 mm
Depth		6.44", 163.6 mm
Net Weight		22 lbs, 9.98 kg
Shipping Weight		23.8 lbs, 10.8 kg

### MATERIALS OF CONSTRUCTION

- Copper voice coil
- Polyimide former
- Double stacked 80 oz. ferrite magnets
- Vented and extended core
- 12-spoke die-cast aluminum basket
- Kevlar-reinforced paper cone
- Foam cone edge
- Dual inverted dust caps



### FREQUENCY RESPONSE & IMPEDANCE CURVE\*



\* See footnotes on page 155 for information regarding usable frequency range, nominal impedance, power rating and sensitivity.