

# FSF122.02

Lavoce

## 12" FULLRANGE

FERRITE MAGNET  
STEEL BASKET DRIVER

- 1.8 INCH COPPER VOICE COIL
- 98 dB/SPL SENSITIVITY
- 300 WATT PROGRAM POWER HANDLING
- FEM OPTIMIZED MOTOR AND SUSPENSIONS
- DUAL CONE FOR EXTENDED FREQUENCY RESPONSE
- SMOOTH AND SILKY TONE
- RESONANCE FREE AND HEAVY DUTY STEEL BASKET DESIGN



### GENERAL SPECIFICATIONS

Nominal diameter	mm (in.)	300 (12)
Nominal impedance	$\Omega$	8
Minimum impedance	$\Omega$	6,5
Program power (1)	W	300
AES Power rating (2)	W	150
Sensitivity (3)	dB	98
Frequency range	Hz	60 ÷ 10000
Voice coil diameter	mm (in.)	45 (1.8)
Chassis material		Steel
Magnet material		Ferrite
Magnet dimensions OD x ID x h	mm (in.)	156 x 80 x 20 (6.1 x 3.15 x 0.79)
Coil material		Copper
Former material		Polyimide
Cone material		Water Resistant Treated Paper
Surround material		Polycotton
Xmax (4)	mm (in.)	3 (0.12)
Xmech (5)	mm (in.)	7 (0.28)
Gap height	mm (in.)	8 (0.31)
Voice coil winding height	mm (in.)	10 (0.39)
Driver displacement volume	l (ft <sup>3</sup> )	2,32 (0.082)
Recommended enclosure	l (ft <sup>3</sup> )	36,75 (1.30)
Recommended tuning	Hz	90

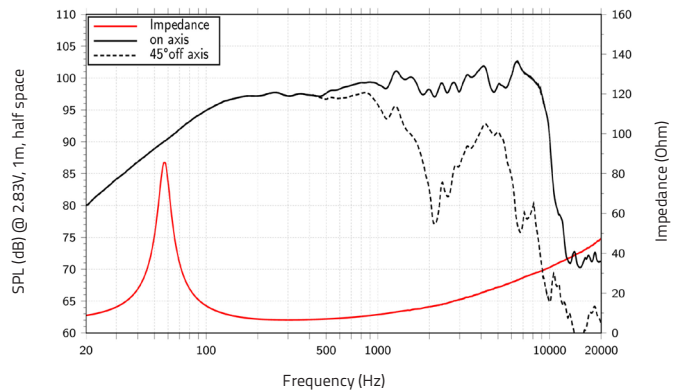
### SMALL SIGNAL PARAMETERS

DC resistance	Re	Ohm	5,9
Resonance frequency	Fs	Hz	57
Moving mass	Mms	g (oz)	41,7 (1.47)
Compliance	Cms	mm/N	0,186
Force factor	BxL	N/A	14,76
Mechanical Q-factor	Qms		5,51
Electrical Q-factor	Qes		0,4
Total Q-factor	Qts		0,38
Equivalent air volume	Vas	l (ft <sup>3</sup> )	65,39 (2.31)
Voice coil Inductance	Le	mH	0,55
Diaphragm area	Sd	cm <sup>2</sup> (in. <sup>2</sup> )	498,8 (77.3)
Reference efficiency	Eta 0	%	2,90
Efficiency bandwidth product	EBP	Hz	143

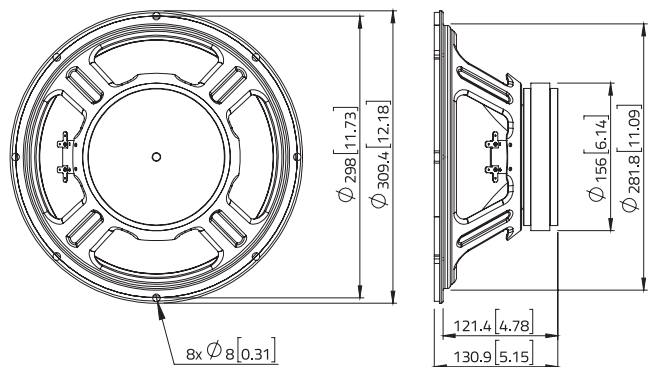
### SHIPPING INFORMATION

Net weight	kg (lb.)	4,4 (9.7)
Multipack size (1)	mm (in.)	356 x 356 x 173 (14 x 14 x 6.8)
Multipack weight	kg (lb.)	5,7 (12.6)

### FREQUENCY RESPONSE AND IMPEDANCE



### DIMENSIONS mm (in.)



(1) Program power is defined as 3 dB greater than AES Power. (2) Tested for two hours using a continuous, band-limited pink noise signal as per AES 2-1984 Rev. 2003. Loudspeaker tested in free air. (3) From T/S parameters, measured with Klippel DA LPM module. (4) The Xmax is calculated as:  $(Hvc - Hg)/2 + Hg/4$ . Hvc is the voice coil height and Hg the gap height. (5) The Xmech is calculated as:  $(Hvc - Hg)/2 + (Hg - 2)$ . Hvc is the voice coil height and Hg the gap height. (6) Thiele-Small parameters are measured after preconditioning: a) at 20°C - 22°C, 50% humidity for 2 hours; b) by Klippel LSI measurement.

All specifications subject to change without notice\_E.a

