

CSF153.00K

Lavoce

15" COAXIAL

FERRITE COMMON HF\LF MAGNET
STEEL BASKET DRIVER

PRELIMINARY

- 3 INCH LF EDGEWOUND COPPER VOICE COIL
- 1.7 INCH HF EDGEWOUND CCA VOICE COIL
- 98 dB/SPL SENSITIVITY
- 700 WATT PROGRAM POWER HANDLING
- FEM OPTIMIZED COMMON MOTOR,
- 50 - 20000 Hz FREQUENCY RANGE
- 80° NOMINAL COVERAGE
- POLYIMIDE HF DIAPHRAGM
- DOUBLE ALUMINIUM DEMODULATING RINGS
- COMPACT AND LIGHTWEIGHT DESIGN



GENERAL SPECIFICATIONS

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LF Nominal diameter / HF Exit	mm (in.)	380 (15)	25,4 (1)
Nominal impedance	Ω	8	8
Minimum impedance	Ω	6,85	7,6
Program power (1)	W	700	120
AES Power rating (2)	W	350	60
Sensitivity (3)	dB	98	108
Frequency range	Hz	50 ÷ 2000	1000 ÷ 20000
Voice coil diameter	mm (in.)	75 (3)	44,4 (1.7)
Chassis material		Steel	
Magnet material		Ferrite	
Magnet dimensions	mm	185 x 85 x 22	
OD x ID x h	(in.)	(7.28 x 3.35 x 0.87)	
Coil material		Edgewound Copper	Edgewound CCA
Former material		Glass Fiber	Kapton
LF Cone / HF Dome material		Waterproof Treated Paper	Polyimide
Surround material		Polycotton	Polyimide
Flux density	T	0,9	1,7
Recommended crossover (4)	Hz	-	1600
Xmax (5)	mm (in.)	7,2 (0.28)	-
Xmech (6)	mm (in.)	11,2 (0.44)	-
Gap height	mm (in.)	8 (0.31)	-
Voice coil winding height	mm (in.)	18,5 (0.73)	-
Driver displacement volume	l (ft³)	4,1 (0.14)	-
Recommended enclosure	l (ft³)	99,1 (3.5)	
Recommended tuning	Hz	51	

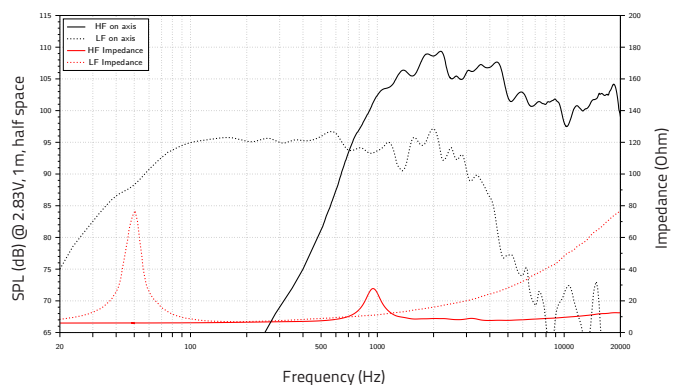
LF SMALL SIGNAL PARAMETERS

DC resistance	Re	Ohm	5,6
Resonance frequency	Fs	Hz	50
Moving mass	Mms	g (oz)	89,6 (3.16)
Compliance	Cms	mm/N	0,113
Force factor	BxL	N/A	16,8
Mechanical Q-factor	Qms		7,97
Electrical Q-factor	Qes		0,56
Total Q-factor	Qts		0,52
Equivalent air volume	Vas	l (ft³)	117,19 (4.14)
Voice coil Inductance	Le	mH	0,83
Diaphragm area	Sd	cm² (in.²)	855 (132.52)
Reference efficiency	Eta 0	%	2,53
Efficiency bandwidth product	EBP	Hz	89

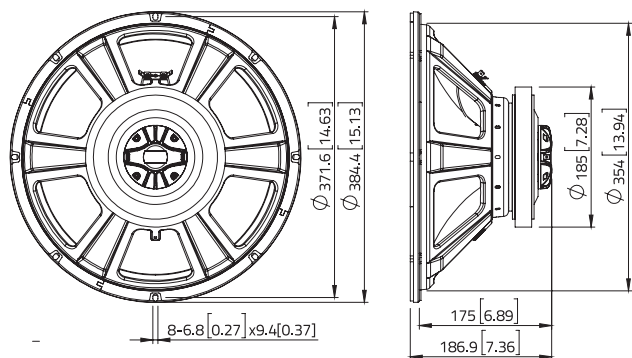
SHIPPING INFORMATION

Net weight	kg (lb.)	6,4 (14.1)
Multipack size (1)	mm	422 x 422 x 245
W x D x H	(in.)	(16.6 x 16.6 x 9.6)
Multipack weight	kg (lb.)	7,8 (17.2)

FREQUENCY RESPONSE AND IMPEDANCE



DIMENSIONS mm (in.)



(1) Program power is defined as 3 dB greater than AES Power.

(2) Tested in free air for two hours using a continuous:

LF: band-limited pink noise signal as per AES 2-1984 Rev. 2003.

HF: band-limited (1600-20000 Hz, 12dB/oct.) pink noise signal as per AES 2-1984 Rev. 2003.

(3) LF: From T/S parameters, measured with Klippel DA LPM module.

HF: Measured on axis at 2.83V, 1m, SPL averaged in the frequency range 1000 ÷ 20000 Hz.

(4) High pass filter with slope 12dB/oct. or higher.

(5) The Xmax is calculated as: $(Hvc - Hg)/2 + Hg/4$. Hvc is the voice coil height and Hg the gap height.

(6) The Xmech is calculated as: $(Hvc - Hg)/2 + (Hg - 2)$. Hvc is the voice coil height and Hg the gap height.

(7) 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. H.a

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