

CAN153.00T

Lavoce

15" COAXIAL

NEODYMIUM COMMON HF\LF MAGNET
ALUMINIUM BASKET DRIVER

PRELIMINARY

- 3 INCH LF COPPER VOICE COIL
- 3 INCH HF EDGEWOUND CCA VOICE COIL
- 99 dB/SPL SENSITIVITY
- 800 WATT PROGRAM POWER HANDLING
- FEM OPTIMIZED COMMON MOTOR, PATENTED IIS PHASEPLUG AND DIAPHRAGM
- 45 - 18000 Hz FREQUENCY RANGE
- 80° NOMINAL COVERAGE
- COMPOSITE TITANIUM/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)	36 (1.4)
Nominal impedance	Ω	8	8
Minimum impedance	Ω	6	7,8
Program power (1)	W	800	160
AES Power rating (2)	W	400	80
Sensitivity (3)	dB	99	105
Frequency range	Hz	45 ÷ 4000	600 ÷ 18000
Voice coil diameter	mm (in.)	75 (3)	75 (3)
Chassis material		Aluminium	
Magnet material		Neodymium	
Magnet dimensions	mm	135 x 85 x 10	
OD x ID x h	(in.)	(5.31 x 3.35 x 0.39)	
Coil material		Copper	Edgewound CCA
Former material		Glass Fiber	Kapton
LF Cone / HF Dome material		WP Treated Paper	Titanium
Surround material		Polycotton	Polyimide
Flux density	T	1,21	1,85
Recommended crossover (4)	Hz	-	1200
Xmax (5)	mm (in.)	6 (0.24)	-
Xmech (6)	mm (in.)	10 (0.39)	-
Gap height	mm (in.)	8 (0.31)	-
Voice coil winding height	mm (in.)	16 (0.63)	-
Driver displacement volume	l (ft³)	5 (0.18)	-
Recommended enclosure	l (ft³)	120 (4.24)	
Recommended tuning	Hz	42	

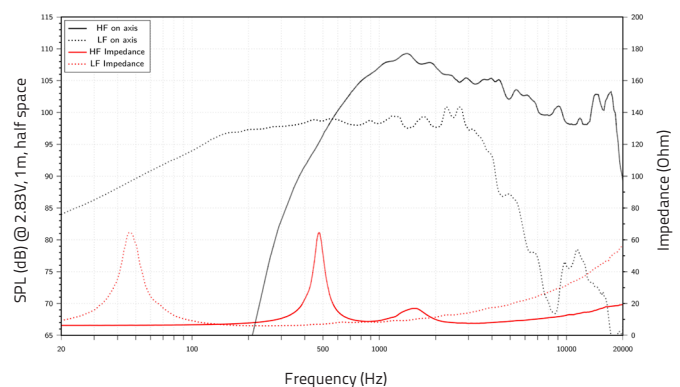
LF SMALL SIGNAL PARAMETERS

DC resistance	Re	Ohm	5,2
Resonance frequency	Fs	Hz	46,8
Moving mass	Mms	g (oz)	89,8 (3.2)
Compliance	Cms	mm/N	0,13
Force factor	BxL	N/A	18
Mechanical Q-factor	Qms		5,5
Electrical Q-factor	Qes		0,42
Total Q-factor	Qts		0,39
Equivalent air volume	Vas	l (ft³)	133,1 (4.70)
Voice coil Inductance	Le	mH	0,84
Diaphragm area	Sd	cm² (in.²)	855 (132.53)
Reference efficiency	Eta 0	%	3,1
Efficiency bandwidth product	EBP	Hz	110

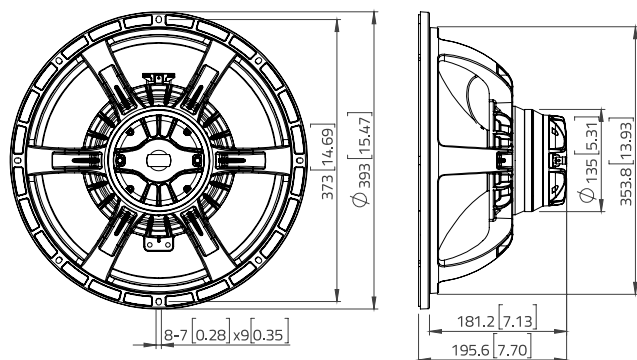
SHIPPING INFORMATION

Net weight	kg (lb.)	5,74 (12.7)
Multipack size (1)	mm	422 x 422 x 244
W x D x H	(in.)	(16.6 x 16.6 x 9.6)
Multipack weight	kg (lb.)	7,29 (16.1)

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 (1000-20000 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 600 ÷ 18000 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. I.a

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