

CAF123.00TH

Lavoce

12" COAXIAL

FERRITE COMMON HF\LF MAGNET
ALUMINIUM BASKET DRIVER

PRELIMINARY

- 3 INCH LF COPPER VOICE COIL
- 3 INCH HF EDGEWOUND CCA VOICE COIL
- 98 dB/SPL SENSITIVITY
- 700 WATT PROGRAM POWER HANDLING
- FEM OPTIMIZED COMMON MOTOR, PATENTED IIS PHASEPLUG AND DIAPHRAGM
- 50 - 18000 Hz FREQUENCY RANGE
- 60°x40° NOMINAL COVERAGE
- COMPOSITE TITANIUM/POLYIMIDE HF DIAPHRAGM
- ALUMINIUM DEMODULATING RING
- COMPACT DESIGN



GENERAL SPECIFICATIONS

		LF	HF
LF Nominal diameter / HF Exit	mm (in.)	300 (12)	36 (1.4)
Nominal impedance	Ω	8	8
Minimum impedance	Ω	6	8
Program power (1)	W	700	160
AES Power rating (2)	W	350	80
Sensitivity (3)	dB	98	105,5
Frequency range	Hz	50 ÷ 3500	600 ÷ 18000
Voice coil diameter	mm (in.)	75 (3)	75 (3)
Chassis material		Aluminium	
Magnet material		Ferrite	
Magnet dimensions OD x ID x h	mm (in.)	190 x 85 x 22 (7.48 x 3.35 x 0.87)	
Coil material		Copper	Edgewound CCA
Former material		Glass Fiber	Kapton
LF Cone / HF Dome material		WP Treated Paper + WP Front Side	Titanium
Surround material		Polycotton	Polyimide
Flux density	T	1	1,6
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)	3,1 (0.11)	-
Recommended enclosure	l (ft³)	48 (1.69)	-
Recommended tuning	Hz	59	-

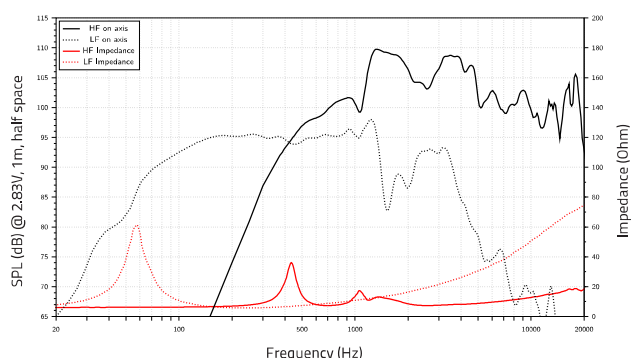
LF SMALL SIGNAL PARAMETERS

DC resistance	Re	Ohm	5,3
Resonance frequency	Fs	Hz	53
Moving mass	Mms	g (oz)	50,4 (1.78)
Compliance	Cms	mm/N	0,179
Force factor	BxL	N/A	15,2
Mechanical Q-factor	Qms		5,27
Electrical Q-factor	Qes		0,39
Total Q-factor	Qts		0,36
Equivalent air volume	Vas	l (ft³)	71,43 (2.52)
Voice coil Inductance	Le	mH	0,82
Diaphragm area	Sd	cm² (in.²)	531 (82.31)
Reference efficiency	Eta 0	%	2,65
Efficiency bandwidth product	EBP	Hz	136

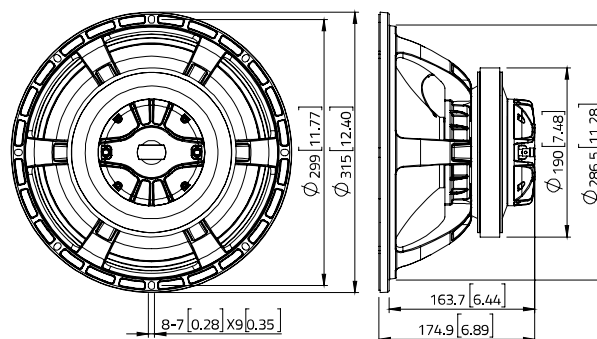
SHIPPING INFORMATION

Net weight	kg (lb.)	7,1 (15.6)
Multipack size (1)	mm (in.)	343 x 343 x 225 (13,5 x 13,5 x 8,8)
Multipack weight	kg (lb.)	8,2 (18.1)

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 (1200-20000 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: $(H_{vc} - H_g) / 2 + H_g / 4$. Hvc is the voice coil height and Hg the gap height.
- (6) The Xmech is calculated as: $(H_{vc} - H_g) / 2 + (H_g - 2)$. 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_1.a

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